

NOTICE OF CHANGE

MIL-STD-975M (NASA)

NOTICE 1

04 NOVEMBER 1994

**NASA STANDARD ELECTRICAL, ELECTRONIC
AND ELECTROMECHANICAL (EEE) PARTS LIST**

TO ALL HOLDERS OF MIL-STD-975M

1. THE FOLLOWING PAGES OF MIL-STD-975M HAVE BEEN REVISED AND SUPERSEDE THE PAGES LISTED:

<u>NEW PAGE</u>	<u>DATE</u>	<u>SUPERSEDED PAGE</u>	<u>DATE</u>
21.7	05 AUGUST 1994	21.7	REPRINTED WITHOUT CHANGE
21.8	04 NOVEMBER 1994	21.8	05 AUGUST 1994
21.9	04 NOVEMBER 1994	21.9	05 AUGUST 1994
21.10	04 NOVEMBER 1994	21.10	05 AUGUST 1994
21.11	04 NOVEMBER 1994	21.11	05 AUGUST 1994
21.12	04 NOVEMBER 1994	21.12	05 AUGUST 1994
21.13	04 NOVEMBER 1994	21.13	05 AUGUST 1994
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2. RETAIN THIS NOTICE AND INSERT BEFORE TABLE OF CONTENTS.

3. Holders of MIL-STD-975M will verify that page changes and additions indicated above have been entered. This notice page will be retained as a check sheet. This issuance, together with appended pages, is a separate publication. Each notice is to be retained by stocking points until the military standard is completely revised or canceled.

Custodians:
NASA-NA

Preparing activity:
NASA-NA

Project 59GP-K140

AMSC N/A
DISTRIBUTION STATEMENT A

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ADVANCED MICROCIRCUIT PARTS LISTING

WARNING

These are nonstandard parts. For additional information refer to paragraph 1.0 of MIL-STD-975 Part II, Section 21, Advanced Microcircuit Parts Listing.

Microcircuit Information

Part Numbering System for NASA Detail Part Specifications:

Part Number						
Specification Number			Part Number Suffix			
NA62	X	XX	XXX	XX	S	X
Stock Class Designator	Total Dose Radiation Hardness Designator	Drawing Number Year	Drawing Number	Type Number	Class Designator	Package Designator
NA62 is the designator for microcircuits based on the Federal Stock Class.	3 krad M 5 krad N 10 krad D 20 krad E 30 krad F 50 krad G 100 krad R 200 krad S 300 krad T 500 krad U 1000 krad H	Last two digits of the year the drawing number was assigned.	Sequential drawing number within the fiscal year.	The type number within the drawing.	Class S- Equivalent	Package designator per MIL-M-38510.
						Lead Finish Designator Lead finish per MIL-M-38510.

Package Type Abbreviations:

DIP = Dual In-line Package; FP = Flatpack Package; LCC = Leadless Chip Carrier; PGA = Pin Grid Array.

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PROCESSORS/CONTROLLERS and PERIPHERALS MONOLITHIC MICROCIRCUITS (31 parts)

SPECIFICATION		PART				Quality Level	Radiation (TID)	Bits
Title	No./Source	Vendor	Type Number	Generic Type	Package	Leads		
16-Bit Parallel EDAC	54HSC/T630 MED	MED#	None	54HSC/T630	DIP	28	S-Equi 1 Mrad	16
16-Bit Parallel EDAC	54HSC/T630 MED	MED#	None	54HSC/T630	FP	28	S-Equi 1 Mrad	16
32-Bit Flow-Thru EDCU	5962-92122 DESC	IDT	01MXX	IDT49C465AGB	PGA	144	B-Equi 40 Krad	32
16-Bit Parallel EDAC	ACS630MS HAR	HAR**	None	ACS630MS	DIP	28	S-Equi 1 Mrad	16
16-Bit Parallel EDAC	ACS630MS HAR	HAR**	None	ACS630MS	FP	28	S-Equi 1 Mrad	16
16-Bit Parallel EDAC	ACTS630MS HAR	HAR**	None	ACTS630MS	DIP	28	S-Equi 1 Mrad	16
16-Bit Parallel EDAC	ACTS630MS HAR	HAR**	None	ACTS630MS	FP	28	S-Equi 1 Mrad	16
8-Bit Microprocessor	CS515800 JPL	HAR**	1	80C85	FP	42	S-Equi 100 Krad	8
Peripheral to 80C85 (2K-Bit SRAM with I/O and Timer)	CS515801 JPL	HAR**	1	81C55	FP	42	S-Equi 100 Krad	2K
Programmable DMA Controller	HS-82C37ARH HAR	HAR**	None	HS-82C37ARHR	FP	42	S-Equi 100 Krad	16
5 MHz Priority Interrupt Controller	NA62-91003 JPL	HAR**	01S3A	MR82C59A	LCC	28	S-Equi NA	24
5 MHz Priority Interrupt Controller	NA62-91003 JPL	HAR**	01SJC	MD82C59A	DIP	28	S-Equi NA	24

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PROCESSORS/CONTROLLERS and PERIPHERALS MONOLITHIC MICROCIRCUITS (cont'd)

SPECIFICATION		PART				Quality Level	Radiation (TID)	Bits
Title	No./Source	Vendor	Type Number	Generic Type	Package			
16-Bit Microprocessor	NA62R91001 JPL	HAR**	01SQC	HS1-80C86RH	DIP	S-Equi	100 Krad	16
16-Bit Microprocessor	NA62R91001 JPL	HAR**	01SXC	HS9-80C86RH	FP	S-Equi	100 Krad	16
5 MHz Programmable Interval Timer	NA62R91002 JPL	HAR**	01SJC	HS1-82C54RH	DIP	S-Equi	100 Krad	16
5 MHz Programmable Interval Timer	NA62R91002 JPL	HAR**	01SKC	HS9-82C54RH	FP	S-Equi	100 Krad	16
5 MHz Static Clock Controller/Generator	NA62R91004 JPL	HAR**	01SJC	HS1-82C85RH	DIP	S-Equi	100 Krad	24
5 MHz Static Clock Controller/Generator	NA62R91004 JPL	HAR**	01SKC	HS9-82C85RH	FP	S-Equi	100 Krad	24
Priority Interrupt Controller	S-311-P-708 GSFC	HAR**	1	82C59A-1	FP (shielded)	S-Equi	100 Krad	24
16-Bit Real Time Express Microcontroller	S-311-P-721 GSFC	HAR**	001	RTX2010RH-Q	FP	S-Equi	1 Mrad	16
16-Bit 8 MHz Microcontroller	S-311-P-721 GSFC	HAR**	002	RTX2010RH-Q	PGA	S-Equi	1 Mrad	16
16-Bit Microprocessor	SSQ22662 SSF	HAR**	01SQX	HS-80C86RH	DIP	S-Equi	100 Krad	16
Programmable Interval Timer	SSQ22663 SSF	HAR**	01SIX	HS-82C54RH	DIP	S-Equi	100 Krad	16

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PROCESSORS/CONTROLLERS and PERIPHERALS MONOLITHIC MICROCIRCUITS (cont'd)

SPECIFICATION		PART					Quality Level	Radiation (TID)	Bits
Title	No./Source	Vendor	Type Number	Generic Type	Package	Lends			
5 MHz Programmable Interrupt Controller	SSQ22665 SSF	HAR**	01SYX	MD82C59A-5/B	DTP	28	S-Equi	NA	24
16-Bit Microprocessor	SSQ22667 SSF	INT**	001	SQ80C186-12	Quad FP	68	S-Equi	NA	16
32-Bit Microprocessor	SSQ22668 SSF	INT**	001	SQ80386-25	Quad FP	164	S-Equi	2.5 Krad	32
80-Bit Numeric Processor	SSQ22669 SSF	INT**	001	SQ80387-25	FP	68	S-Equi	NA	80
Multi-Bus II Interface Controller	SSQ22670 SSF	INT**	001	SQ82389	Quad FP	164	S-Equi	NA	32
1553 Bus Controller, Remote Terminal	SSQ22673-001 SSF	UNT@	001	UT1553BBCRT WS	FP	84	S-Equi	NA	16
32-Bit DMAC	SSQ22692 SSF	INT**	001	82380-25	LCC	164	S-Equi	NA	32
48-Bit Numerically Controlled Oscillator	Vendor Spec STE	STEL	None	STEL-1173RH	FP	84	S-Equi	1 Mrad	48

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MEMORIES MONOLITHIC MICROCIRCUITS (36 parts)

SPECIFICATION		PART				Quality Level	Radiation (TID)	Access Time
Title	No./Source	Vendor	Type Number	Generic Type	Package	Leads		
32K x 8 Low Power (3.0 mA) SRAM	5962-88552 DESC	IDT	01ZX	IDT71256	FP	28	B-Equi NA	+5 V
32K x 8 Low Power (3.0 mA) SRAM	5962-88552 DESC	IDT	02ZX	IDT71256	FP	28	B-Equi NA	+5 V
32K x 8 Low Power (3.0 mA) SRAM	5962-88552 DESC	IDT	03ZX	IDT71256	FP	28	B-Equi NA	+5 V
32K x 8 Low Power (3.0 mA) SRAM	5962-88552 DESC	IDT	04ZX	IDT71256	FP	28	B-Equi NA	+5 V
32K x 8 Low Power (3.0 mA) SRAM	5962-88552 DESC	IDT	05ZX	IDT71256	FP	28	B-Equi NA	+5 V
32K x 8 Low Power (3.0 mA) SRAM	5962-88552 DESC	IDT	06ZX	IDT71256	FP	28	B-Equi NA	+5 V
32K x 8 Low Power (3.0 mA) SRAM	5962-88552 DESC	IDT	07ZX	IDT71256	FP	28	B-Equi NA	+5 V
32K x 8 Low Power (3.0 mA) SRAM	5962-88552 DESC	IDT	08ZX	IDT71256	FP	28	B-Equi NA	+5 V
32K x 8 Low Power (3.0 mA) SRAM	5962-88552 DESC	IDT	09ZX	IDT71256	FP	28	B-Equi NA	+5 V
32K x 8 SRAM	5962-88662 DESC	Austin MCT	01TX	MT5C2568F-100883	FP	28	B-Equi 10 Krad	100 ns
32K x 8 SRAM	5962-88662 DESC	Austin MCT	02TX	MT5C2568F	FP	28	B-Equi 10 Krad	70 ns
32K x 8 SRAM	5962-88662 DESC	Austin MCT	03TX	MT5C2568F	FP	28	B-Equi 10 Krad	55 ns
32K x 8 SRAM	5962-88662 DESC	Austin MCT	04TX	MT5C2568F	FP	28	B-Equi 10 Krad	45 ns

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MEMORIES MONOLITHIC MICROCIRCUITS (cont'd)

SPECIFICATION		PART				Quality Level	Radiation (TID)	Access Time
Title	No./Source	Vendor	Type Number	Generic Type	Package			
32K x 8 SRAM	5962-88662 DESC	Austin MCT	05TX	MT5C2568F	FP	B-Equi	10 Krad	35 ns
32K x 8 SRAM	5962-88662 DESC	Austin MCT	06TX	MT5C2568F	FP	B-Equi	10 Krad	25 ns
32K x 8 SRAM	5962-88662 DESC	Austin MCT	07TX	MT5C2568F	FP	B-Equi	10 Krad	20 ns
8K x 16 Dual Port SRAM	5962-91617 DESC	IDT	01MYX	7025	FP	B-Equi	NA	70 ns
8K x 16 Dual Port SRAM	5962-91617 DESC	IDT	02MYX	7025	FP	B-Equi	NA	70 ns
8K x 16 Dual Port SRAM	5962-91617 DESC	IDT	03MYX	7025	FP	B-Equi	NA	55 ns
8K x 16 Dual Port SRAM	5962-91617 DESC	IDT	04MYX	7025	FP	B-Equi	NA	55 ns
8K x 16 Dual Port SRAM	5962-91617 DESC	IDT	05MYX	7025	FP	B-Equi	NA	45 ns
8K x 16 Dual Port SRAM	5962-91617 DESC	IDT	06MYX	7025	FP	B-Equi	NA	45 ns
8K x 16 Dual Port SRAM	5962-91617 DESC	IDT	07MYX	7025	FP	B-Equi	NA	35 ns
8K x 16 Dual Port SRAM	5962-91617 DESC	IDT	08MYX	7025	FP	B-Equi	NA	35 ns
64Kx1 SRAM	HS-65643RHR HAR	HAR**	None	HS-65643RHR	FP	S-Equi	300 Krad	35 ns
8Kx8 SRAM	HS-65647RH-Q HAR	HAR**	None	HS-65647RH-Q	DIP	S-Equi	300 Krad	50 ns

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SPECIFICATION		PART					Quality Level	Radiation (TID)	Access Time
Title	No./Source	Vendor	Type Number	Generic Type	Package	Leads			
8Kx8 SRAM	HS-65647RH-Q HAR	HAR**	None	HS-65647RH-Q	FP	28	S-Equi	300 Krad	35 ns
8Kx16 Dual Port SRAM	IDT7025L45FB DSPSE	IDT	None	IDT7025	QFP	84	B-Equi	15 Krad	45 ns
2Kx8 PROM	NA62R91005 JPL	HAR**	01SJC	6617RH	DIP	24	S-Equi	100 Krad	50 ns
2Kx8 PROM	NA62R91005 JPL	HAR**	01SKC	6617RH	FP	24	S-Equi	100 Krad	50 ns
512x9 FIFO	S-311-P-705 GSFC	MED#	1	7001RH	DIP	28	S-Equi	100 Krad	90 ns
512x9 FIFO	S-311-P-705 GSFC	MED#	2	7001RH	FP	28	S-Equi	100 Krad	90 ns
256K (32K x 8) EEPROM	Vendor Spec SEI	SEI@ Atmel	None	28C256ARP	FP	28	B-Equi	100 Krad	120 ns
UT7164 8Kx8 SRAM	Vendor Spec UTMC	UNT@	55WSXH	UT7164	FP	28	S-Equi	1 Mrad	55 ns
UT6M628 8Kx16 SRAM	Vendor Spec UTMC	UNT@	None	UT6M628	DIP	40	S-Equi	1 Mrad	55 ns
UT7M628 8Kx16 ROM	Vendor Spec UTMC	UNT@	None	UT7M628	DIP	40	S-Equi	1 Mrad	70 ns

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INTERFACE MONOLITHIC MICROCIRCUITS (4 parts)

SPECIFICATION		PART				Quality Level	Radiation (TID)	Supply Voltage
Title	No./Source	Vendor	Type Number	Generic Type	Package	Leads		
Remote Terminal Interface with 1Kx16 SRAM	5962-89576 DESC	UNT@	01XX	UT1553B RTR	PGA	68	NA	+5 V
1553 Serial μ -coded Monolithic Multi-mode Intelligent Terminal (SuMMIT)	5962-92118 DESC	UNT@	01MXX	UT69151	FP	84	NA	+5 V
1553B BC/RT/M	NA62R91006 JPL	UNT@	01SKC	UT1553B BCRTMWSR	FP	84	100 Krad	+7 V
UT69R000 MicroController	Vendor Spec UTMC	UNT@	None	UT69R000	FP	132	100 Krad	+5 V

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ASIC MONOLITHIC MICROCIRCUITS (6 parts)

SPECIFICATION		PART					Quality Level	Radiation (TID)	Supply Voltage
Title	No./Source	Vendor	Type Number	Generic Type	Package	Leads			
2000 Gate FPGA	5962-90965 DESC	Actel MAT	01MTX	A1020A-CQ84B	FP	84	B-Equi	NA	+5 V
2000 Gate FPGA	5962-90965 DESC	TDX**	01MTX	TPC1020AMHT84B	FP	84	B-Equi	NA	+5 V
2000 Gate FPGA	5962-90965 DESC	Actel	02MTX	A1020A-1-CQ84B	FP	84	B-Equi	NA	+5 V
2000 Gate FPGA	5962-90965 DESC	TDX**	02MTX	TPC1020AMHT84B-1	FP	84	B-Equi	NA	+5 V
2000 Gate FPGA	ST12166 JPL	Actel	None	ACT1020	FP	84	S-Equi	100 Krad	+5 V
ASIC, Gate Array Input Output Unit (IOU)	ST12186 JPL	UNT@	UTD160R	12186-E0UTD160FR	FP	84	S-Equi	100 Krad	+7 V

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ANALOG-TO-DIGITAL MONOLITHIC MICROCIRCUITS (6 parts)

SPECIFICATION		PART					Quality Level	Radiation (TID)	Supply Voltage
Title	No./Source	Vendor	Type Number	Generic Type	Package	Leads			
12-Bit ADC Microprocessor Compatible	5962-85127 DESC	ADI@	013X	AD574AUE/883B	DIP	28	B-Equi	>100 Krad	+/-16.5 V
12-Bit ADC Microprocessor Compatible	5962-85127 DESC	ADI@	01XX	AD574AUD	DIP	28	B-Equi	NA	+/-16.5 V
12-Bit ADC Microprocessor Compatible	5962-85127 DESC	ADI@	023X	AD574ATE	DIP	28	B-Equi	NA	+/-16.5 V
12-Bit ADC Microprocessor Compatible	5962-85127 DESC	ADI@	02XX	AD574ATD	DIP	28	B-Equi	NA	+/-16.5 V
16-Bit ADC	S-311-P-704 GSFC	Crystal	None	CS5016	DIP	40	S-Equi	10 Krad	+/-6 V
12-Bit ADC	ST12075 JPL	SEI@ Maxim	04	U7672FR5	FP	24	S-Equi	100 Krad	+5 V

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PALS MONOLITHIC MICROCIRCUITS (1 part)

SPECIFICATION		PART						Quality Level	Radiation (TID)	Supply Voltage
Title	No./Source	Vendor	Type Number	Generic Type	Package	Leads				
Programmable Array Logic	95916 LML	TDX**	001	PAL22VP1025MJT	DIP	24		S-Equi	15 Krad	+5 V

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INTERFACE HYBRID MICROCIRCUITS (54 parts)

SPECIFICATION			PART				Quality Level	Radiation (TID)	Supply Voltage
Title	No./Source	Vendor	Type Number	Generic Type	Package	Leads			
MIL-STD-1553 (1553) Driver-Receiver, Single Ch.	5962-86049 DESC	ILC#	02TX	BUS-63106II	FP	24	H	NA	-15 V
1553 Driver-Receiver, Single Ch.	5962-86049 DESC	ILC#	02ZX	BUS-63105II	DIP	24	H	NA	-15 V
1553 Driver-Receiver, Single Ch.	5962-86049 DESC	ARX#	03YX	ARX-2402	DIP	24	H	NA	+/-15 V
1553 Driver-Receiver, Single Ch.	5962-86049 DESC	NHI#	06YX	NHI-1509	DIP	24	H	NA	+15 V
1553 Dual Redundant Remote Terminal Unit (RTU)	5962-87535 DESC	ILC#	01XX	BUS-65112	Hybrid	78	H	NA	+/-15 V
1553 Dual Redundant RTU	5962-87535 DESC	ILC#	01YX	BUS-65117	FP	82	H	NA	+/-15 V
1553 Driver-Receiver, Dual Ch.	5962-87579 DESC	ILC#	02XX	BUS-63125II	DIP	36	H	NA	-15 V
1553 Driver-Receiver, Dual Ch.	5962-87579 DESC	ILC#	02YX	BUS-63126II	FP	36	H	NA	-15 V
1553 Driver-Receiver, Dual Ch.	5962-87579 DESC	MRL#	08XX	MR63125MPR	DIP	36	H	NA	-15 V
12-Bit Data Acquisition System (DAS)	5962-88514 DESC	Sipex#	01XX	HS9403B-8	Quad	62	H	NA	+/-15 V
12-Bit DAS	5962-88514 DESC	Sipex#	02XX	HS9403B-16	Quad	62	H	NA	+/-15 V

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INTERFACE HYBRID MICROCIRCUITS (contd)

SPECIFICATION		PART				Quality Level	Radiation (TID)	Supply Voltage
Title	No./Source	Vendor	Type Number	Generic Type	Package	Leads		
1553 Bus Controller (BC), RTU, and Monitor Unit (MT) Dual Redundant	5962-88585 DESC	ILC#	01XX	BUS-65600	DIP	78	NA	+5 V
1553 Bus-to-Microprocessor Interface Unit	5962-88586 DESC	ILC#	01XX	BUS-66300II-883B	DIP	78	NA	+7 V
1553 Bus-to-Microprocessor Interface Unit	5962-88586 DESC	ILC#	01YX	BUS-66301II-883B	FP	82	NA	+7 V
1553 BC/RTU/MT Multiplexed Terminal	5962-88692 DESC	ILC#	01XC	BUS-61553	DIP	78	NA	+5, -15 V
1553 BC/RTU/MT Multiplexed Terminal	5962-88692 DESC	ILC#	01XX	BUS-61553	DIP	78	NA	+5, -15 V
1553 BC/RTU/MT Multiplexed Terminal	5962-88692 DESC	ILC#	01XX	BUS-61563	DIP	78	NA	+5, -15 V
1553 BC/RTU/MT Multiplexed Terminal	5962-88692 DESC	ILC#	01YA	BUS-61563	FP	82	NA	+5, -15 V
1553 BC/RTU/MT Multiplexed Terminal	5962-88692 DESC	ILC#	01YC	BUS-61563	FP	82	NA	+5, -15 V
1553 BC/RTU/MT Multiplexed Terminal	5962-88692 DESC	ILC#	01YX	BUS-61563	FP	82	NA	+5, -15 V

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SPECIFICATION		PART					Quality Level	Radiation (TID)	Supply Voltage
Title	No./Source	Vendor	Type Number	Generic Type	Package	Leads			
1553 BC/RTU/MT Multiplexed Terminal	5962-88692 DESC	ILC#	02XA	BUS-61554	DIP	78	H	NA	+5, -12 V
1553 BC/RTU/MT Multiplexed Terminal	5962-88692 DESC	ILC#	02XC	BUS-61554	DIP	78	H	NA	+5, -12 V
1553 BC/RTU/MT Multiplexed Terminal	5962-88692 DESC	ILC#	02XX	BUS-61554	DIP	78	H	NA	+5, -12 V
1553 BC/RTU/MT Multiplexed Terminal	5962-88692 DESC	ILC#	02YC	BUS-61564	FP	82	H	NA	+5, -12 V
1553 BC/RTU/MT Multiplexed Terminal	5962-88692 DESC	ILC#	03XC	BUS-61555	DIP	78	H	NA	+5 V
1553 BC/RTU/MT Multiplexed Terminal	5962-88692 DESC	ILC#	03YC	BUS-61565	FP	82	H	NA	+5 V
1553 BC/RTU/MT Multiplexed Terminal	5962-88692 DESC	ILC#	04XC	BUS-61556	DIP	78	H	NA	+5 V
1553 Driver-Receiver, Dual Ch. Receiver Idle	5962-89447 DESC	ILC#	04HXX	BUS-63135II	DIP	36	H	NA	-15 V
1553 Driver-Receiver, Dual Ch. Receiver Idle	5962-89447 DESC	ILC#	04HYX	BUS-63136II	FP	36	H	NA	-15 V

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ADVANCED MICROCIRCUIT PARTS LISTING

WARNING:

These are nonstandard parts. For additional information refer to paragraph 1.0 of MIL-STD-975, Part II, Section 21, Advanced Microcircuit Parts Listing.

INTERFACE HYBRID MICROCIRCUITS (cont'd)

SPECIFICATION		PART				Quality Level	Radiation (TID)	Supply Voltage
Title	No./Source	Vendor	Type Number	Generic Type	Package	Leads		
1553 Transceiver, Dual Ch.	5962-89522 DESC	ARX#	02XX	ARX-2453	DIP	36	H NA	+5 V
Dual 8 Channel MUX w/Precision Sample and Hold	5962-89565 DESC	Sipex#	01XX	HS362SB	DIP	32	H NA	+/-15 V
Dual Redundant RTU	5962-89798 DESC	ILC#	01XX	BUS-65142	Hybrid	78	H NA	+5 V
Dual Redundant RTU	5962-89798 DESC	ILC#	01YX	BUS-65144	FP	82	H NA	+5 V
Dual Redundant RTU	5962-89798 DESC	ILC#	02XX	BUS-65143	Hybrid	78	H NA	+5 V
Dual Redundant RTU	5962-89798 DESC	ILC#	02YX	BUS-65145	FP	82	H NA	+5 V
1553 Driver-Receiver, Dual Ch.	5962-89826 DESC	ILC#	01XX	BUS-63127D	DIP	36	H NA	-12 V
1553 Driver-Receiver, Dual Ch.	5962-89826 DESC	ILC#	01YX	BUS-63128D	FP	36	H NA	-12 V
1553 Data Terminal Bit Processor	5962-90636 DESC	MED#	01HYX	CT1820F	FP	60	H NA	+5 V
1553 Data Terminal Bit Processor	5962-90636 DESC	MED#	02HYX	CT1820-2F	FP	60	H NA	+5 V
1553 Data Terminal Bit Processor	5962-90636 DESC	ARX#	03HXX	ARX2410	Plug-In	56	H NA	+5 V
1553 Data Terminal Bit Processor	5962-90636 DESC	ARX#	04HXX	ARX3410	Plug-In	56	H NA	+5 V

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WARNING:

These are nonstandard parts. For additional information refer to paragraph 1.0 of MIL-STD-975, Part II, Section 21, Advanced Microcircuit Parts Listing.

INTERFACE HYBRID MICROCIRCUITS (contd)

SPECIFICATION		PART					Quality Level	Radiation (TID)	Supply Voltage
Title	No./Source	Vendor	Type Number	Generic Type	Package	Leads			
1553 MUX Bus RT	5962-91687 DESC	NHL#	01HXX	NHL-1553RT	DIP	66	H	NA	+5 V
1553 MUX Bus RT	5962-91687 DESC	NHL#	01HYX	NHL-1553RTFP	FP	66	H	NA	+5 V
1553 MUX Bus RT	5962-91687 DESC	NHL#	02HXX	NHL-1554RT	DIP	66	H	NA	+5 V
1553 MUX Bus RTU	5962-91687 DESC	NHL#	02HYX	NHL-1554RTFP	FP	66	H	NA	+5 V
1553 MUX Bus RT	5962-91687 DESC	NHL#	03HUX	NHL-1561RTFP	FP	68	H	NA	+5 V
1553 MUX Bus RT	5962-91687 DESC	NHL#	03HZX	NHL-1561RT	PGA	69	H	NA	+5 V
1553 MUX Bus RT	5962-91687 DESC	NHL#	04HUX	NHL-1562RTFP	FP	68	H	NA	+5 V
1553 MUX Bus RT	5962-91687 DESC	NHL#	04HZX	NHL-1562RT	PGA	69	H	NA	+5 V
1553 MUX Bus RT	5962-91687 DESC	NHL#	05HXX	NHL-1572RT	DIP	66	H	NA	+5 V
1553 MUX Bus RT	5962-91687 DESC	NHL#	05HYX	NHL-1572RTFP	FP	66	H	NA	+5 V
1553 MUX Bus RT	5962-91687 DESC	NHL#	06HXX	NHL-1576RT	DIP	66	H	NA	+5 V
1553 MUX Bus RT	5962-91687 DESC	NHL#	06HYX	NHL-1576RTFP	FP	66	H	NA	+5 V
16 Channel MUX/DeMUX	PT40872 JPL	HAR**	None	HS 1840	FP	28	S-Equi	200 Krad	+15 V

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WARNING:

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ANALOG-TO-DIGITAL HYBRID MICROCIRCUITS (29 parts)

SPECIFICATION		PART					Quality Level	Radiation (TID)	Supply Voltage
Title	No./Source	Vendor	Type Number	Generic Type	Package	Leads			
12-Bit A/D Converter (ADC)	5962-88508 DESC	Datel#	01XX	ADC-HX	DIP	32	H	NA	+/-15 V
12-Bit ADC	5962-88508 DESC	Datel#	02XX	ADC-HZ	DIP	32	H	NA	+/-15 V
12-Bit ADC	5962-88508 DESC	MN#	02XX	MNADC87H/B	DIP	32	H	NA	+/-15 V
12-Bit ADC Track and Hold	5962-88542 DESC	ILC#	01XX	ADC-00300-112	DIP	40	H	NA	+/-15 V
12-Bit ADC	5962-88658 DESC	ADI@	01XX	AD578SD	DIP	32	H	NA	+/-15 V
12-Bit ADC	5962-88658 DESC	ADI@	02XX	AD578TD	DIP	32	H	NA	+/-15 V
12-Bit ADC	5962-88658 DESC	ADI@	03XX	AD578ZSD	DIP	32	H	NA	+/-12 V
12-Bit ADC	5962-88658 DESC	ADI@	04XX	AD578ZTD	DIP	32	H	NA	+/-15 V
12-Bit ADC	5962-89569 DESC	MN#	01HXX	MN5295H/B	DIP	32	H	NA	+/-15 V
12-Bit ADC	5962-89583 DESC	MN#	01YX	MN5200H/B	DIP	24	H	NA	+/-15 V
12-Bit ADC	5962-89583 DESC	MN#	02YX	MN5203H/B	DIP	24	H	NA	+/-15 V
12-Bit ADC	5962-89583 DESC	MN#	03YX	MN5201H/B	DIP	24	H	NA	+/-15 V
12-Bit ADC	5962-89583 DESC	MN#	04YX	MN5204H/B	DIP	24	H	NA	+/-15 V

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WARNING:

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ANALOG-TO-DIGITAL HYBRID MICROCIRCUITS (cont'd)

SPECIFICATION		PART					Quality Level	Radiation (TID)	Supply Voltage
		No./Source	Vendor	Type Number	Generic Type	Package			
12-Bit ADC		5962-89583 DESC	MN#	05YX	MN5203H/B	DIP	H	NA	+/-15 V
12-Bit ADC		5962-89583 DESC	MN#	06YX	MN5205H/B	DIP	H	NA	+/-15 V
12-Bit ADC		5962-89583 DESC	MN#	07YX	MN5206H/B	DIP	H	NA	+/-15 V
12-Bit ADC		5962-89584 DESC	MN#	01YX	MN5210H/B	DIP	H	NA	+/-15 V
12-Bit ADC		5962-89584 DESC	MN#	02YX	MN5213H/B	DIP	H	NA	+/-15 V
12-Bit ADC		5962-89584 DESC	MN#	03YX	MN5211H/B	DIP	H	NA	+/-15 V
12-Bit ADC		5962-89584 DESC	MN#	04YX	MN5214H/B	DIP	H	NA	+/-15 V
12-Bit ADC		5962-89584 DESC	MN#	05YX	MN5212H/B	DIP	H	NA	+/-15 V
12-Bit ADC		5962-89584 DESC	MN#	06YX	MN5215H/B	DIP	H	NA	+/-15 V
12-Bit ADC		5962-89584 DESC	MN#	07YX	MN5216H/B	DIP	H	NA	+/-15 V
12-Bit ADC		5962-89595 DESC	MN#	01XX	MN5245H/B	DIP	H	NA	+/-15 V
12-Bit ADC		5962-89595 DESC	MN#	02XX	MN5245AH/B	DIP	H	NA	+/-15 V
12-Bit ADC		5962-89595 DESC	MN#	03XX	MN5246H/B	DIP	H	NA	+/-15 V

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ANALOG-TO-DIGITAL HYBRID MICROCIRCUITS (contd)

SPECIFICATION		PART				Quality Level	Radiation (TID)	Supply Voltage
Title	No./Source	Vendor	Type Number	Generic Type	Package			
12-Bit ADC	5962-89595 DESC	M/N#	04XX	MN5246AH/B	DP	H	NA	+/-15 V
16-Bit High Speed ADC	5962-90795 DESC	Sipex#	01HXX	HS9576S/B	DP	H	NA	+/-15 V
16-Bit High Speed ADC	5962-90795 DESC	Sipex#	02HXX	HS9576T/B	DP	H	NA	+/-15 V

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DIGITAL-TO-ANALOG HYBRID MICROCIRCUITS (22 parts)

SPECIFICATION		PART				Quality Level	Radiation (TID)	Bits
Title	No./Source	Vendor	Type Number	Generic Type	Package	Leads		
12-Bit D-to-A Range Programmable Voltage Out Converter	83002 DESC	ADI@	01JX	DAC87	DIP	24	NA	12
12-Bit DAC Bipolar Linear Quad	5962-88509 DESC	ADI@	01XX	AD390SD	DIP	28	NA	12
12-Bit DAC Bipolar Linear Quad	5962-88509 DESC	ADI@	02XX	AD390TD	DIP	28	NA	12
12-Bit DAC Bipolar Quad	5962-88510 DESC	ADI@	01XX	AD394SD	DIP	28	NA	12
12-Bit DAC Bipolar Quad	5962-88510 DESC	ADI@	02XX	AD394TD	DIP	28	NA	12
12-Bit DAC Bipolar Quad	5962-88510 DESC	ADI@	03XX	AD395SD	DIP	28	NA	12
12-Bit DAC Bipolar Quad	5962-88510 DESC	ADI@	04XX	AD395TD	DIP	28	NA	12
14-Bit DAC De-glitched	5962-88517 DESC	ILC#	01XA	DAC02310-112	DIP	32	NA	14
14-Bit DAC De-glitched	5962-88517 DESC	ILC#	01XC	DAC02310-112	DIP	32	NA	14
14-Bit DAC De-glitched	5962-88517 DESC	ILC#	01YA	DAC02311-112	FP	32	NA	14
14-Bit DAC De-glitched	5962-88517 DESC	ILC#	01YC	DAC02311-112	FP	32	NA	14
14-Bit DAC De-glitched	5962-88517 DESC	ILC#	02XA	DAC02310-113	DIP	32	NA	14

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These are nonstandard parts. For additional information refer to paragraph 1.0 of MIL-STD-975, Part II, Section 21, Advanced Microcircuit Parts Listing.

DIGITAL-TO-ANALOG HYBRID MICROCIRCUITS (cont'd)

SPECIFICATION		PART					Quality Level	Radiation (TID)	Bits
Title	No./Source	Vendor	Type Number	Generic Type	Package	Leads			
14-Bit DAC De-glitched	5962-88517 DESC	ILC#	02XC	DAC02310-113	DIP	32	H	NA	14
14-Bit DAC De-glitched	5962-88517 DESC	ILC#	02YA	DAC02311-113	FP	32	H	NA	14
14-Bit DAC De-glitched	5962-88517 DESC	ILC#	02YC	DAC02311-113	FP	32	H	NA	14
12-Bit DAC Binary Input Code	5962-89528 DESC	Datel#	01XX	DAC HKB	DIP	24	H	NA	12
12-Bit DAC 2s Complement	5962-89528 DESC	Datel#	02XX	DAC HKB-2	DIP	24	H	NA	12
16-Bit DAC	5962-89531 DESC	Datel#	01HDX	DAC HPB	DIP	24	H	NA	16
16-Bit DAC	5962-89531 DESC	Datel#	02HDX	DAC HPB-1	DIP	24	H	NA	16
HS9378 16-Bit DAC, Microcompatible	5962-89862 DESC	Sipex#	01XX	HS9378TB	DIP	28	H	NA	16
HS9378 16-Bit DAC, Microcompatible	5962-89862 DESC	Sipex#	02XX	HS9378SB	DIP	28	H	NA	16
16-Bit Track and Hold Amplifier	5962-90630 DESC	Sipex#	01HDX	SP9760B	DIP	24	H	NA	16

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ADVANCED MICROCIRCUIT PARTS LISTING

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DIGITAL-TO-SYNCHRO HYBRID MICROCIRCUITS (4 parts)

SPECIFICATION		PART					Radiation (TID)	Quality Level	Bits
Title	No./Source	Vendor	Type Number	Generic Type	Package	Leads			
16-Bit Digital-to-Synchro and Digital-to-Resolver Converter	5962-89986 DESC	ILC#	01HXX	DSC-11520-112	DIP	36	NA	H	16
16-Bit Digital-to-Synchro and Digital-to-Resolver Converter	5962-89986 DESC	ILC#	02HXX	DSC-11520-113	DIP	36	NA	H	16
16-Bit Digital-to-Synchro and Digital-to-Resolver Converter	5962-89986 DESC	ILC#	03HXX	DSC-11520-114	DIP	36	NA	H	16
16-Bit Digital-to-Synchro and Digital-to-Resolver Converter	5962-89986 DESC	ILC#	04HXX	DSC-11520-115	DIP	36	NA	H	16

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ADVANCED MICROCIRCUIT PARTS LISTING

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RESOLVER/SYNCHRO-TO-DIGITAL CONVERTERS HYBRID MICROCIRCUITS (20 parts)

SPECIFICATION		PART				Quality Level	Radiation (TID)	Accuracy (Arc Min)
Title	No./Source	Vendor	Type Number	Generic Type	Package	Leads		
14-Bit 11.8 V Resolver or Synchro-to-Digital Converter	5962-87687 DESC	ILC#	01XX	HSDC-8920A	DIP	36	NA	+/-2.6
14-Bit 11.8 V Resolver or Synchro-to-Digital Converter	5962-87687 DESC	ILC#	02XX	HSDC-8920	DIP	36	NA	+/-4.0
90.0 V Synchro-to-Digital Converter	5962-89498 DESC	ILC#	01XX	SDC14561-114	DIP	36	NA	+/-2.0
90.0 V Synchro-to-Digital Converter	5962-89498 DESC	ILC#	02XX	SDC14561-115	DIP	36	NA	+/-1.0
16-Bit 11.8 V Synchro-to-Digital Converter	5962-89499 DESC	ILC#	03XX	SDC14560-605	DIP	36	NA	+/-2.0
16-Bit 11.8 V Synchro-to-Digital Converter	5962-89908 DESC	ILC#	03XX	SDC14565-616	DIP	36	NA	+/-2.0
16-Bit 1.0 V Direct Resolver-to-Digital Converter	5962-90551 DESC	ILC#	01XX	SDC14567-111	DIP	36	NA	+/-6.0
16-Bit 1.0 V Direct Resolver-to-Digital Converter	5962-90551 DESC	ILC#	02XX	SDC14567-112	DIP	36	NA	+/-4.0
16-Bit 1.0 V Direct Resolver-to-Digital Converter	5962-90551 DESC	ILC#	03XX	SDC14567-114	DIP	36	NA	+/-2.0

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RESOLVER/SYNCHRO-TO-DIGITAL CONVERTERS HYBRID MICROCIRCUITS (contd)

SPECIFICATION		PART				Quality Level	Radiation (TID)	Accuracy (Arc Min)
Title	No./Source	Vendor	Type Number	Generic Type	Package	Leads		
16-Bit 1.0 V Direct Resolver-to-Digital Converter	5962-90551 DESC	ILC#	04XX	SDC14567-115	DIP	36	NA	+/-1.0
1.0 V Direct Resolver-to-Digital Converter	5962-90551 DESC	ILC#	05XX	SDC14569-111	DIP	36	NA	+/-6.0
1.0 V Direct Resolver-to-Digital Converter	5962-90551 DESC	ILC#	06XX	SDC14569-112	DIP	36	NA	+/-4.0
1.0 V Direct Resolver-to-Digital Converter	5962-90551 DESC	ILC#	07XX	SDC14569-114	DIP	36	NA	+/-2.0
1.0 V Direct Resolver-to-Digital Converter	5962-90551 DESC	ILC#	08XX	SDC14569-115	DIP	36	NA	+/-1.0
14-Bit Resolver or Synchro-to-Digital Converter Voltage Follower Buffer Input	5962-90554 DESC	ILC#	01XX	HSDC-8915A	DIP	36	NA	+/-2.6
14-Bit Resolver or Synchro-to-Digital Converter Voltage Follower Buffer Input	5962-90554 DESC	ILC#	02XX	HSDC-8915	DIP	36	NA	+/-4.0
14-Bit 11.8 V Synchro-to-Digital Converter	5962-90707 DESC	ILC#	01HXX	SDC14500-635	DIP	36	NA	+/-2.6
14-Bit 11.8 V Synchro-to-Digital Converter	5962-90707 DESC	ILC#	02HXX	SDC14500-636	DIP	36	NA	+/-4.0

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RESOLVER/SYNCHRO-TO-DIGITAL CONVERTERS HYBRID MICROCIRCUITS (contd)

SPECIFICATION		PART					Quality Level	Radiation (TID)	Accuracy (Arc Min)
Title	No./Source	Vendor	Type Number	Generic Type	Package	Leads			
14-Bit 90.0 V Synchro-to-Digital Converter	5962-90707 DESC	ILC#	03HXX	SDC14502-605	DIP	36	H	NA	+/-2.6
14-Bit 90.0 V Synchro-to-Digital Converter	5962-90707 DESC	ILC#	04HXX	SDC14502-606	DIP	36	H	NA	+/-4.0

ADVANCED MICROCIRCUIT PARTS LISTING

IDENTIFICATION CODE LIST¹

CODE	NAME
Actel	Actel Corporation
ADI@	Analog Devices, Inc.
ARX#	Aeroflex Laboratories, Inc.
AT&T**	American Telephone & Telegraph
AUS	Austin Semiconductor, Inc.
Crystal	Crystal Semiconductor
Date1#	Datel, Inc.
DESC	Defense Electronics Supply Center
GSFC	Goddard Space Flight Center
HAR**	Harris Semiconductor
HON**	Honeywell, Inc.
IBM**	International Business Machines
IDT	Integrated Device Technology
ILC#	ILC Data Device Corporation
INT**	Intel Corporation
JPL	Jet Propulsion Laboratory
LML	Lockheed Monitored Line
MAT	Matsushita Electronics Corporation
MCT	Micron Semiconductor, Inc.
MED#	Marconi Circuit Technology (GEC Plessey)
MN#	MicroNetworks Company
MRL#	Micro-Rel Div. of Medtronic Incorporated
SEI@ ²	Space Electronics Incorporated
NHI#	National Hybrid, Inc.
Sipex#	Sipex Corporation
SSF	Space Station Freedom
STEL	Stanford Telecom
TIX**	Texas Instruments, Inc.
UNT@	United Technologies Microelectronics Center, Inc.

¹ These codes appear in the Advanced Microcircuit Parts Listing table under the column headers "No./Source." and "Vendor."

² Consult SEI for TID data.

** These manufacturers are QML Certified and Qualified for QML-38535.

These manufacturers are QML Certified and Qualified for QML-38534.

@ These manufacturers are transitionally QML Certified for QML-38535.