

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SUPERSEDED PAGE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 |
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| 21.29 | 04 NOVEMBER 1994 | 21.29 | NEW PAGE |
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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 | Leads | | |
| 16-Bit Microprocessor | NA62R91001 JPL | HAR** | 01SQC | HS1-80C86RH | DIP | 40 | 100 Krad | 16 |
| 16-Bit Microprocessor | NA62R91001 JPL | HAR** | 01SXC | HS9-80C86RH | FP | 42 | 100 Krad | 16 |
| 5 MHz Programmable Interval Timer | NA62R91002 JPL | HAR** | 01SJC | HS1-82C54RH | DIP | 24 | 100 Krad | 16 |
| 5 MHz Programmable Interval Timer | NA62R91002 JPL | HAR** | 01SKC | HS9-82C54RH | FP | 24 | 100 Krad | 16 |
| 5 MHz Static Clock Controller/Generator | NA62R91004 JPL | HAR** | 01SJC | HS1-82C85RH | DIP | 24 | 100 Krad | 24 |
| 5 MHz Static Clock Controller/Generator | NA62R91004 JPL | HAR** | 01SKC | HS9-82C85RH | FP | 24 | 100 Krad | 24 |
| Priority Interrupt Controller | S-311-P-708 GSFC | HAR** | 1 | 82C59A-1 | FP (shielded) | 28 | 100 Krad | 24 |
| 16-Bit Real Time Express Microcontroller | S-311-P-721 GSFC | HAR** | 001 | RTX2010RH-Q | FP | 84 | 1 Mrad | 16 |
| 16-Bit 8 MHz Microcontroller | S-311-P-721 GSFC | HAR** | 002 | RTX2010RH-Q | PGA | 84 | 1 Mrad | 16 |
| 16-Bit Microprocessor | SSQ22662 SSF | HAR** | 01SQX | HS-80C86RH | DIP | 40 | 100 Krad | 16 |
| Programmable Interval Timer | SSQ22663 SSF | HAR** | 01SIX | HS-82C54RH | DIP | 24 | 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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These are nonstandard parts. For additional information refer to paragraph 1.0 of MIL-STD-975, Part II, Section 2.1, Advanced Microcircuit Parts Listing.

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 | NA | +5 V |
| 32K x 8 Low Power (3.0 mA) SRAM | 5962-88552 DESC | IDT | 02ZX | IDT71256 | FP | 28 | NA | +5 V |
| 32K x 8 Low Power (3.0 mA) SRAM | 5962-88552 DESC | IDT | 03ZX | IDT71256 | FP | 28 | NA | +5 V |
| 32K x 8 Low Power (3.0 mA) SRAM | 5962-88552 DESC | IDT | 04ZX | IDT71256 | FP | 28 | NA | +5 V |
| 32K x 8 Low Power (3.0 mA) SRAM | 5962-88552 DESC | IDT | 05ZX | IDT71256 | FP | 28 | NA | +5 V |
| 32K x 8 Low Power (3.0 mA) SRAM | 5962-88552 DESC | IDT | 06ZX | IDT71256 | FP | 28 | NA | +5 V |
| 32K x 8 Low Power (3.0 mA) SRAM | 5962-88552 DESC | IDT | 07ZX | IDT71256 | FP | 28 | NA | +5 V |
| 32K x 8 Low Power (3.0 mA) SRAM | 5962-88552 DESC | IDT | 08ZX | IDT71256 | FP | 28 | NA | +5 V |
| 32K x 8 Low Power (3.0 mA) SRAM | 5962-88552 DESC | IDT | 09ZX | IDT71256 | FP | 28 | NA | +5 V |
| 32K x 8 SRAM | 5962-88662 DESC | Austin MCT | 01TX | MT5C2568F-100883 | FP | 28 | 10 Krad | 100 ns |
| 32K x 8 SRAM | 5962-88662 DESC | Austin MCT | 02TX | MT5C2568F | FP | 28 | 10 Krad | 70 ns |
| 32K x 8 SRAM | 5962-88662 DESC | Austin MCT | 03TX | MT5C2568F | FP | 28 | 10 Krad | 55 ns |
| 32K x 8 SRAM | 5962-88662 DESC | Austin MCT | 04TX | MT5C2568F | FP | 28 | 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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MEMORIES MONOLITHIC MICROCIRCUITS (cont'd)

| 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 | | | |
| Remote Terminal Interface with 1Kx16 SRAM | 5962-89576 DESC | UNT@ | 01XX | UT1553B RTR | PGA | B-Equi | NA | +5 V |
| 1553 Serial μ -coded Monolithic Multi-mode Intelligent Terminal (SuMMIT) | 5962-92118 DESC | UNT@ | 01MXX | UT69151 | FP | S-Equi | NA | +5 V |
| 1553B BC/RT/M | NA62R91006 JPL | UNT@ | 01SKC | UT1553B BCRTMWSR | FP | S-Equi | 100 Krad | +7 V |
| UT69R000 MicroController | Vendor Spec UTMC | UNT@ | None | UT69R000 | FP | S-Equi | 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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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 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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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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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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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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ANALOG-TO-DIGITAL HYBRID MICROCIRCUITS (cont'd)

| SPECIFICATION | | PART | | | | | Quality Level | Radiation (TID) | Supply Voltage |
|---------------|--------------------|--------|-------------|--------------|---------|-------|---------------|-----------------|----------------|
| Title | No./Source | Vendor | Type Number | Generic Type | Package | Leads | | | |
| 12-Bit ADC | 5962-89583 DESC | MN# | 05YX | MN5203H/B | DIP | 24 | H | NA | +/-15 V |
| 12-Bit ADC | 5962-89583 DESC | MN# | 06YX | MN5205H/B | DIP | 24 | H | NA | +/-15 V |
| 12-Bit ADC | 5962-89583 DESC | MN# | 07YX | MN5206H/B | DIP | 24 | H | NA | +/-15 V |
| 12-Bit ADC | 5962-89584 DESC | MN# | 01YX | MN5210H/B | DIP | 24 | H | NA | +/-15 V |
| 12-Bit ADC | 5962-89584 DESC | MN# | 02YX | MN5213H/B | DIP | 24 | H | NA | +/-15 V |
| 12-Bit ADC | 5962-89584 DESC | MN# | 03YX | MN5211H/B | DIP | 24 | H | NA | +/-15 V |
| 12-Bit ADC | 5962-89584 DESC | MN# | 04YX | MN5214H/B | DIP | 24 | H | NA | +/-15 V |
| 12-Bit ADC | 5962-89584 DESC | MN# | 05YX | MN5212H/B | DIP | 24 | H | NA | +/-15 V |
| 12-Bit ADC | 5962-89584 DESC | MN# | 06YX | MN5215H/B | DIP | 24 | H | NA | +/-15 V |
| 12-Bit ADC | 5962-89584 DESC | MN# | 07YX | MN5216H/B | DIP | 24 | H | NA | +/-15 V |
| 12-Bit ADC | 5962-89595 DESC | MN# | 01XX | MN5245H/B | DIP | 40 | H | NA | +/-15 V |
| 12-Bit ADC | 5962-89595 DESC | MN# | 02XX | MN5245AH/B | DIP | 40 | H | NA | +/-15 V |
| 12-Bit ADC | 5962-89595 DESC | MN# | 03XX | MN5246H/B | DIP | 40 | 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 | DIP | H | NA | +/-15 V |
| 16-Bit High Speed ADC | 5962-90795 DESC | Sipex# | 01HXX | HS9576S/B | DIP | H | NA | +/-15 V |
| 16-Bit High Speed ADC | 5962-90795 DESC | Sipex# | 02HXX | HS9576T/B | DIP | 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 | | | |
| 12-Bit D-to-A Range Programmable Voltage Out Converter | 83002 DESC | ADI@ | 01JX | DAC87 | DIP | H | NA | 12 |
| 12-Bit DAC Bipolar Linear Quad | 5962-88509 DESC | ADI@ | 01XX | AD390SD | DIP | H | NA | 12 |
| 12-Bit DAC Bipolar Linear Quad | 5962-88509 DESC | ADI@ | 02XX | AD390TD | DIP | H | NA | 12 |
| 12-Bit DAC Bipolar Quad | 5962-88510 DESC | ADI@ | 01XX | AD394SD | DIP | H | NA | 12 |
| 12-Bit DAC Bipolar Quad | 5962-88510 DESC | ADI@ | 02XX | AD394TD | DIP | H | NA | 12 |
| 12-Bit DAC Bipolar Quad | 5962-88510 DESC | ADI@ | 03XX | AD395SD | DIP | H | NA | 12 |
| 12-Bit DAC Bipolar Quad | 5962-88510 DESC | ADI@ | 04XX | AD395TD | DIP | H | NA | 12 |
| 14-Bit DAC De-glitched | 5962-88517 DESC | ILC# | 01XA | DAC02310-112 | DIP | H | NA | 14 |
| 14-Bit DAC De-glitched | 5962-88517 DESC | ILC# | 01XC | DAC02310-112 | DIP | H | NA | 14 |
| 14-Bit DAC De-glitched | 5962-88517 DESC | ILC# | 01YA | DAC02311-112 | FP | H | NA | 14 |
| 14-Bit DAC De-glitched | 5962-88517 DESC | ILC# | 01YC | DAC02311-112 | FP | H | NA | 14 |
| 14-Bit DAC De-glitched | 5962-88517 DESC | ILC# | 02XA | DAC02310-113 | DIP | H | NA | 14 |
| | | | | | | | | |

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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 | Datcl# | 01XX | DAC HKB | DIP | 24 | H | NA | 12 |
| 12-Bit DAC 2s Complement | 5962-89528 DESC | Datcl# | 02XX | DAC HKB-2 | DIP | 24 | H | NA | 12 |
| 16-Bit DAC | 5962-89531 DESC | Datcl# | 01HDX | DAC HPB | DIP | 24 | H | NA | 16 |
| 16-Bit DAC | 5962-89531 DESC | Datcl# | 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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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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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 |

ADVANCED MICROCIRCUIT PARTS LISTING

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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.