QUALIFICATIONS VALIDATED ANNUALLY

QUALIFIED MANUFACTURERS LIST

OF

FSC 5962

CUSTOM HYBRID MICROCIRCUITS

QUALIFIED UNDER MILITARY SPECIFICATION

MIL-H-38534

CUSTOM HYBRID MICROCIRCUITS

GENERAL REQUIREMENTS FOR

This list has been prepared for use by or for the Government in the acquisition of products covered by Specification MIL-H-38534. Listing of a product is not intended to and does not connote endorsement of the product by the Department of Defense. This list is subject to change without notice; revision or amendment of this list will be issued as necessary. The listing of a product does not in any way release the supplier from compliance with the individual item specification requirements.

THE ACTIVITY RESPONSIBLE FOR THIS QML IS THE UNITED STATES AIR FORCE, CODE 17. The activity designated as agent for all contacts relative to this QML is the Defense Electronics Supply Center (DESC-EQ), Dayton, OH 45444-5285.

If a manufacturer desires to have test data considered for qualification, he must perform all required qualification tests; the qualification sample must be produced under a valid authorization to test with DESC certified materials and manufacturing construction techniques; and he must comply with the requirements specified in MIL-H-38534 prior to the start of any testing.

The listing of custom hybrid microcircuit materials and manufacturing construction techniques in QML-38534 applies only to products produced on the MIL-STD-1772 certified line(s) at the plant(s) specified on the QML.

Only those products that have been manufactured, assembled, and tested within the United States and its territories, except as provided by international agreement establishing reciprocal and equivalent quality systems and procedures, can be supplied as qualified custom hybrid QML devices.

Custom hybrid microcircuits manufactured, assembled, and tested in accordance with MIL-H-38534 shall bear the "QML" certification mark for SMD controlled hybrid microcircuits and the "CH" (compliant hybrid) certification mark for non-SMD controlled hybrid microcircuits. The certification mark shall be located preceding the date code. The certification mark abbreviation "Q" or "C" may be used for small devices. Products manufactured, assembled, and tested for Class S or Class B, with all the provisions of MIL-H-38534, MIL-STD-883, Test Method 5008, MIL-STD-1772, and with DESC certified materials and manufacturing construction techniques, can be represented as being compliant to the appropriate product assurance levels as listed herein. The information contained in this QML reflects the material and manufacturing construction techniques of the particular test sample(s). Any product represented as being compliant shall be comprised combinatorially of a manufacturer's listing from the materials and manufacturing construction techniques listed herein, as is necessary to meet the requirements of the user. The user shall be responsible for determining if the QML listing is adequate to demonstrate capability for the intended application. Supplemental testing and listing can be accomplished by application and approval of DESC-EQ. Testing is not limited to those materials and manufacturing construction techniques currently listed herein. However, testing must be completed and approved before the product can be shipped or used in the intended application.

To obtain MIL-H-38534 qualified custom hybrid microcircuits, the procurement document must specify that the product be manufactured to MIL-H-38534, and be comprised of materials and manufacturing construction techniques listed herein. Ordering data is contained in paragraph 6.1 of MIL-H-38534. All procurement documents shall meet the requirements of MIL-H-38534, Appendix C (see cautionary note herein).

AMSC N/A

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Caution: Hybrid microcircuit devices that are built tested, and shipped under the QML provision (using certified/qualified manufacturing materials and construction techniques) and in full compliance with MIL-H-38534 and MIL-STD-1772 can be determined by this QML.

Contractor acquiring activities, military program offices, and other government representatives can determine if hybrid microcircuits meet the requirements of MIL-H-38534 and MIL-STD-1772 by:

a. Product listed in the product eligibility section herein, and

b. Product marked with "QML" certification for SMD controlled hybrid microcircuits and the "CH" (compliant hybrid) certification mark for non-SMD controlled hybrid microcircuits. the certification mark shall proceed the date code. the certification mark abbreviation "Q" or "C" may be used for small devices.

Products that do not meet the above conditions are not manufactured on a MIL-STD-1772 certified/qualified line and are not in full compliance with MIL-H-38534 and MIL-STD-1772 requirements. Hybrids microcircuits that require MIL-H-38534 and MIL-STD-1772 and are not listed herein should be carefully reviewed and verified for contract compliance by the acquisition activity. To determine whether new products are in accordance with MIL-H-38534 and MIL-STD-1772 you may call the agent for the qualifying activity (DESC-EQ).

NOTES:

1/ The QML listing can be expanded provided appropriate qualification testing is performed and passed. Therefore the manufacture may accept an order for compliant product not covered by his QML listing, but shall not ship the compliant product until the testing has been successfully completed.

2/ Package seal perimeter is listed by largest perimeter successfully tested in inches

3/ Package lead counts are listed by maximum number of leads covered by qualification.

4/ Caution. Do not use this number for item acquisition. Item acquired to this number may not satisfy the performance requirements of the listed SMD.

5/ Inactive for new design, no longer available from manufacturer.

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MANUFACTURER	CAGE CODE	SYMBOL CODE
Advanced Analog A Division of Intech 2270 Martin Avenue Santa Clara, California 95050-2781	52467	CEXA

QUALIFICATION LETTER(S)	PRODUCT CLASS DESIGNATOR	RADIATION HARDNESS LEVEL	TECHNOLOGY TYPES
EQ(EQC-89-065) EQ(EQC-90-652) EQ(EQC-92-103)	Class H	N/A	AD/DA Converters DC/DC Converters Sample and Hold Amplifier

SUBSTRATE FABRICATION OPERATION (S) 1/

LOCATION: Santa Clara, CA FLOW: 8002-0044 CAPABILITY: thick film on alumina, 2 conductor levels, resistors	LOCATION: Santa Clara, CA FLOW: 8002-0074 CAPABILITY: thick film on alumina, 4 conductor levels, resistors

ASSEMBLY OPERATION(S) 1/

LOCATION: Santa Clara, CA FLOW: 8002-0044 CAPABILITY: polymer conductive epoxy; gold wire bonding	LOCATION: Santa Clara, CA FLOW: 8002-0074 CAPABILITY: polymer conductive/nonconductive epoxy, solder; gold, aluminum, and copper wire bonding

ADD-ON ELEMENTS: unpackaged die, chip capacitors, molytab, transformer, chip resistor
SUBSTRATE ATTACH: polymer conductive/nonconductive epoxy

PACKAGE INFORMATION 1/ 2/ 3/

PACKAGE TYPE:	ceramic dual-in-line	metal,with axial leads	metal, with peripheral leads
SEAL METHOD:	seam weld	seam weld	seam weld
LEAD COUNT:	24	10	58
SEAL PERIMETER:	3.69	6.44	5.15
LEAD FINISH:	gold	gold	gold

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MANUFACTURER	CAGE CODE	SYMBOL CODE
Advanced Analog A Division of Intech 2270 Martin Avenue Santa Clara, California 95050-2781	52467	CEXA

PRODUCT ELIGIBILITY: The above manufacturer has certified that the following listing of hybrid microcircuits are built, tested, and shipped using the above certified FLOW/ QUALIFIED MATERIALS AND MANUFACTURING TECHNIQUES and are in **FULL COMPLIANCE** with **MIL-H-38534** and **MIL-STD-1772** requirements.
The listing does not in anyway represent or imply interchangeability, equivalency.

SPECIFIC PRODUCT TYPES

STANDARDIZED MILITARY DRAWING (SMD)	ESDS CLASS	MANUFACTURER SIMILAR PART NUMBER 4/	PRODUCT TYPE/DESCRIPTION	SHIPPED
5962-8950901XX	1	RGBDAC3808H/B	D/A conv.,triple, 8-bit, video RAM	No
5962-8968301HXX	1	AHE2805S/HB	DC/DC conv.,5V,15W out, single ch.	No
5962-8968301HZX	1	AHE2805SF/HB	DC/DC conv.,5V,15W out, single ch.	No
5962-8968302HXX	1	AHE2805S/HBSLV	DC/DC conv.,5V,15W out, single ch.	No
5962-8968302HZX	1	AHE2805S/HBSLV	DC/DC conv.,5V,15W out, single ch.	No
5962-8968303HXX	1	AHE2805S/HBMST	DC/DC conv.,5V,15W out, single ch.	No
5962-8968303HZX	1	AHE2805S/HBMST	DC/DC conv.,5V,15W out, single ch.	No
5962-9157501HXX	1	AHE2815D/CH	DC/DC conv.,15V,15W out, dual ch.	No
5962-9157501HZX	1	AHE2815DF/CH	DC/DC conv.,15V,15W out, dual ch.	No
5962-9157502HXX	1	AHE2815D/CHSLV	DC/DC conv.,15V,15W out, dual ch.	No
5962-9157502HZX	1	AHE2815DFCHSLV	DC/DC conv.,15V,15W out, dual ch.	No
5962-9157503HXX	1	AHE2815DCHMSTR	DC/DC conv.,15V,15W out, dual ch.	No
5962-9157503HZX	1	AHE2815DFCHMST	DC/DC conv.,15V,15W out, dual ch.	No
5962-9157901HZX	1	ATW280S/CH	DC/DC conv.,5V,30W out, single ch.	Yes
5962-9157902HZX	1	ATW280S/CH-SLV	DC/DC conv.,5V,30W out, single ch.	No
5962-9157903HZX	1	ATW280S/CHMSTR	DC/DC conv.,5V,30W out, single ch.	No
5962-9158001HXX	1	AHE2812S/CH	DC/DC conv.,12V,20W out, single ch.	No
5962-9158001HZX	1	AHE2812SF/CH	DC/DC conv.,12V,20W out, single ch.	No
5962-9158002HXX	1	AHE2812S/CHSLV	DC/DC conv.,12V,20W out, single ch.	No
5962-9158002HZX	1	AHE2812SFCHSLV	DC/DC conv.,12V,20W out, single ch.	No
5962-9158003HXX	1	AHE2812SCHMSTR	DC/DC conv.,12V,20W out, single ch.	No
5962-9158003HZX	1	AHE2812SFCHMST	DC/DC conv.,12V,20W out, single ch.	No
5962-9162501HXX	1	AHE2815S/HB	DC/DC conv.,15V,20W output	No
5962-9162501HZX	1	AHE2815SF/HB	DC/DC conv.,15V,20W output	No
5962-9162502HXX	1	AHE2815S/HBSLV	DC/DC conv.,15V,20W output	No
5962-9162502HZX	1	AHE2815SF/HBSL	DC/DC conv.,15V,20W output	No

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SPECIFIC PRODUCT TYPES

STANDARDIZED MILITARY DRAWING (SMD)	ESDS CLASS	MANUFACTURER SIMILAR PART NUMBER 4/	PRODUCT TYPE/DESCRIPTION	SHIPPED
5962-9162503HXX	1	AHE2815S/HBMST	DC/DC conv.,15V,20W output	No
5962-9162503HZX	1	AHE2815SF/HBMS	DC/DC conv.,15V,20W output	No
5962-9204001HXX	1	AHE2812D/CH	DC/DC conv.,12V,15W out, dual ch.	No
5962-9204001HZX	1	AHE2812DF/CH	DC/DC conv.,12V,15W out, dual ch.	Yes
5962-9204002HXX	1	AHE2812D/CHSLV	DC/DC conv.,12V,15W out, dual ch.	No
5962-9204002HZX	1	AHE2812DFCHSLV	DC/DC conv.,12V,15W out, dual ch.	No
5962-9204003HXX	1	AHE2812DCHMSTR	DC/DC conv.,12V,15W out, dual ch.	No
5962-9204003HZX	1	AHE2812DFCHMST	DC/DC conv.,12V,15W out, dual ch.	No
Stock class 5915				
5915-9102001HXX	1	AFC-461	Filter, EMF, 4.0 A	Yes
5915-9102001HZX	1	AFC-461F	Filter, EMF, 4.0 A	No

NUMBER OF SCD/SID DEVICES COVERED BY QUALIFICATION TESTING MIL-H-38534 COMPLIANT: 0

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MANUFACTURER	CAGE CODE	SYMBOL CODE
Aeroflex Laboratories Incorporated 35 South Service Road Plainview, NY 11803	88379	CFAS

QUALIFICATION LETTER(S)	PRODUCT CLASS DESIGNATOR	RADIATION HARDNESS LEVEL	TECHNOLOGY TYPES
EQ(EQC-90-616) EQ(EQC-91-896) EQ9EQC-92-001)	Class H	N/A	Linear Analog Digital

SUBSTRATE FABRICATION OPERATION (S) 1/

LOCATION: Plainview, NY FLOW: QAP21-241 CAPABILITY: thick film on alumina, 6 conductor levels, resistors	LOCATION: N/A FLOW: N/A CAPABILITY: N/A

ASSEMBLY OPERATION(S) 1/

LOCATION: Plainview, NY FLOW: QAP21-241 CAPABILITY: polymer conductive epoxy, eutectic; gold wire bonding	LOCATION: N/A FLOW: N/A CAPABILITY: N/A

ADD-ON ELEMENTS: unpackaged die, chip capacitors, tabs
SUBSTRATE ATTACH: polymer nonconductive epoxy

PACKAGE INFORMATION 1/ 2/ 3/

PACKAGE TYPE:	metal,with axial leads	ceramic, dual-in-line	metal, with peripheral leads
SEAL METHOD:	seam weld	seam weld	seam weld
LEAD COUNT:	78	24	82
SEAL PERIMETER:	7.94	3.72	7.01
LEAD FINISH:	gold	gold	gold

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SPECIFIC PRODUCT TYPES

STANDARDIZED MILITARY DRAWING (SMD)	ESDS CLASS	MANUFACTURER SIMILAR PART NUMBER 4/	PRODUCT TYPE/DESCRIPTION	SHIPPED
5962-8604903YX	1	ARX2402	1553 single channel driver-receiver	No
5962-8604904UX	1	ARX3402	1553 single channel drvr/rec.,low power	No
5962-8753502XX	1	ARX2452	1553 remote terminal unit, dual red.	No
5962-8753502YX	1	ARX2452FP	1553 remote terminal unit, dual red.	No
5962-8757903YX	1	ARX2411FP	1553 dual channel driver/receiver, -15	No
5962-8757903XX	1	ARX2411	1553 dual channel driver/receiver, -15	No
5962-8757904XX	1	ARX3411	1553 dual ch. drvr/rec., low power -15	Yes
5962-8757904YX	1	ARX3411FP	1553 dual ch. drvr/rec., low power -15	No
5962-8944701HUX	1	ARX3436	1553 dual ch. drvr/rec., idle high	No
5962-8944701HXX	1	ARX3416	1553 dual ch. drvr/rec., idle high	No
5962-8944701HYX	1	ARX3416FP	1553 dual ch. drvr/rec., idle high	No
5962-8944701HZX	1	ARX3436FP	1553 dual ch. drvr/rec., idle high	No
5962-8952202XX	1	ARX-2453	1553 transceiver, dual channel, 5V	No
5962-8952202YX	1	ARX-2453FP	1553 transceiver, dual channel, 5V	No
5962-8959201XX	1	ARX3407	1553 driver/rec., single ch., low power	No
5962-8959201YX	1	ARX3407FP	1553 driver/rec., single ch., low power	No
5962-8959202XX	1	ARX3404	Unvl driver/rec., single ch., low power	No
5962-8959202YX	1	ARX3404FP	Unvl driver/rec., single ch., low power	No
5962-8959203XX	1	ARX3407-001	1553 driver/rec., single ch., low power	Yes
5962-8959203YX	1	ARX3407-001FP	1553 driver/rec., single ch., low power	Yes
5962-8959204XX	1	ARX3404-001	Unvl driver/rec., single ch., low power	Yes
5962-8959204YX	1	ARX3404-001FP	Unvl driver/rec., single ch., low power	No
5962-8959205XX	1	ARX3467	1553 driver/rec., single ch., low power	No

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Aeroflex Laboratories Incorporated 35 South Service Road Plainview, NY 11803	88379	CFAS

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SPECIFIC PRODUCT TYPES

STANDARDIZED MILITARY DRAWING (SMD)	ESDS CLASS	MANUFACTURER SIMILAR PART NUMBER 4/	PRODUCT TYPE/DESCRIPTION	SHIPPED
5962-8959205YX	1	ARX3467FP	1553 driver/rec., single ch., low power	No
5962-8959206XX	1	ARX3464	1552 driver/rec., single ch., low power	No
5962-9859206YX	1	ARX3464FP	1553 driver/rec., single ch., low power	No
5962-8982602XX	1	ARX3419	Driver/resceiver, dual channel	No
5962-8982602YX	1	ARX3419FP	Driver/resceiver, dual channel	No
5962-9063603HXX	1	ARX2410	Driver/resceiver, dual channel	No
5962-9063604HXX	1	ARX3410	Driver/resceiver, dual channel	No
5962-9082903HUX	1	ARX3420	Driver/resceiver, single channel	No
5962-9082904HUX	1	ARX3424	Driver/resceiver, single channel	No

NUMBER OF SCD/SID DEVICES COVERED BY QUALIFICATION TESTING MIL-H-38534 COMPLIANT: 25

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MANUFACTURER	CAGE CODE	SYMBOL CODE
Analog Devices Incorporated Micro Electronics Division 829 Woburn Street Wilmington, Massachusetts 01887	51640	CEUJ

QUALIFICATION LETTER(S)	PRODUCT CLASS DESIGNATOR	RADIATION HARDNESS LEVEL	TECHNOLOGY TYPES
EQ(EQM-87-2531) EQ(EQC-89-253)	Class H	N/A	AD/DA Converters Voltage Reference Signal Processor

SUBSTRATE FABRICATION OPERATION (S) 1/

LOCATION: Wilmington, MA FLOW: EE-QA-8419 CAPABILITY: thick film on alumina, 2 conductor levels, resistors	LOCATION: N/A FLOW: N/A CAPABILITY: N/A

ASSEMBLY OPERATION(S) 1/

LOCATION: Wilmington, MA FLOW: EE-QA-8122 CAPABILITY: polymer conductive/non-conductive epoxy; gold and aluminum wire bonding	LOCATION: N/A FLOW: N/A CAPABILITY: N/A

ADD-ON ELEMENTS: unpackaged die, chip capacitors, chip resistor
SUBSTRATE ATTACH: polymer nonconductive epoxy

PACKAGE INFORMATION 1/ 2/ 3/

PACKAGE TYPE:	ceramic dual-in-line	TO can	
SEAL METHOD:	seam weld	projection weld	
LEAD COUNT:	32	12	
SEAL PERIMETER:	4.35	0.942	
LEAD FINISH:	gold	gold	

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MANUFACTURER	CAGE CODE	SYMBOL CODE
Analog Devices Incorporated Micro Electronics Division 829 Woburn Street Wilmington, Massachusetts 01887	51640	CEUJ

PRODUCT ELIGIBILITY: The above manufacturer has certified that the following listing of hybrid microcircuits are built, tested, and shipped using the above certified FLOW/ QUALIFIED MATERIALS AND MANUFACTURING TECHNIQUES and are in **FULL COMPLIANCE** with **MIL-H-38534** and **MIL-STD-1772** requirements.
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SPECIFIC PRODUCT TYPES

STANDARDIZED MILITARY DRAWING (SMD)	ESDS CLASS	MANUFACTURER SIMILAR PART NUMBER 4/	PRODUCT TYPE/DESCRIPTION	SHIPPED
8300201JX	1	DAC87	D/A Conv., 12-bit, programmable	Yes
8503001YX	1	2700SD	Reference, Precision Voltage, +10V	Yes
8503002YX	1	2700UD	Reference, Precision Voltage, +10V	Yes
8503003YX	1	2701SD	Reference, Precision Voltage, -10V	Yes
8503004YX	1	2702SD	Reference, Precision Voltage, +/-10V	Yes
8503005YX	1	2702UD	Reference, Precision Voltage, +/-10V	Yes
8503006YX	1	2701UD	Reference, Precision Voltage, -10V	Yes
5962-8850901XX	1	AD390S	D/A conv, 12-bit, bipolar, linear, quad	Yes
5962-8850902XX	1	AD390T	D/A conv, 12-bit, bipolar, linear, quad	Yes
5962-8851001XX	1	AD394S	D/A conv, 12-bit, bipolar	Yes
5962-8851002XX	1	AD394T	D/A conv, 12-bit, quad, bipolar	Yes
5962-8851003XX	1	AD395S	D/A conv, 12-bit, quad, unipolar	Yes
5962-8851004XX	1	AD395T	D/A conv, 12-bit, quad, unipolar	Yes
5962-8865801XX	1	AD578X	A/D conv, 12-bit, high speed	Yes
5962-8865802XX	1	AD578T	A/D conv, 12-bit, high speed	Yes
5962-8865803XX	1	AD578ZSD	A/D conv, 12-bit, high speed	No
5962-8865804XX	1	AD578ZTD	A/D conv, 12-bit, high speed	No

NUMBER OF SCD/SID DEVICES COVERED BY QUALIFICATION TESTING MIL-H-38534 COMPLIANT: 22

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MANUFACTURER	CAGE CODE	SYMBOL CODE
Analog Devices Incorporated Computer Labs Division (CLD) 7910 Triad Center Drive Greensboro, North Carolina 27409	34031	CETW

QUALIFICATION LETTER(S)	PRODUCT CLASS DESIGNATOR	RADIATION HARDNESS LEVEL	TECHNOLOGY TYPES
EQ(EQC-92-025) EQ(EQC-92-119)	Class H	N/A	Buffer Data Converters Op-Amp Track and Hold

SUBSTRATE FABRICATION OPERATION (S) 1/

LOCATION: Greensboro, NC FLOW: QAP 3060 CAPABILITY: thick film on alumina, 1 conductor level, resistors	LOCATION: Greensboro, NC FLOW: QAP 3060 CAPABILITY: thin film on alumina, 1 conductor level, resistors

ASSEMBLY OPERATION(S) 1/

LOCATION: Greensboro, NC FLOW: QAP 3060 CAPABILITY: polymer conductive & nonconductive epoxy; gold and aluminum wire bonding	LOCATION: N/A FLOW: N/A CAPABILITY: N/A

ADD-ON ELEMENTS: unpackaged die, chip capacitors, chip resistors
SUBSTRATE ATTACH: polymer nonconductive epoxy **** Maximum constant acceleration level qualified 7500g, A7910 package only.**

PACKAGE INFORMATION 1/ 2/ 3/

PACKAGE TYPE:	TO can	metal,with axial leads **	
SEAL METHOD:	projection Weld	seam weld	
LEAD COUNT:	12	46	
SEAL PERIMETER:	1.91	7.94	
LEAD FINISH:	gold & solder	gold & solder	

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Analog Devices Incorporated Computer Labs Division (CLD) 7910 Triad Center Drive Greensboro, North Carolina 27409	34031	CETW

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The listing does not in anyway represent or imply interchangeability, equivalency.

SPECIFIC PRODUCT TYPES

STANDARDIZED MILITARY DRAWING (SMD)	ESDS CLASS	MANUFACTURER SIMILAR PART NUMBER 4/	PRODUCT TYPE/DESCRIPTION	SHIPPED
8001301ZX	1	0032	Op amp, thick film	Yes
8001401ZX	1	0033	Hi Speed Buffer Amp, Volt. Foll., FET in	Yes
5962-8857901XC	1	HOS-050A	Op Amp, Video, Fast Settling, +/- 15mV	Yes
5962-8857902XC	1	HOS-060SH	Op Amp, Video, Fast Settling, +/- 1.5mV	Yes
5962-9073001YX	1	HTC-0300AM/883	High speed track and hold amplifier	No

NUMBER OF SCD/SID DEVICES COVERED BY QUALIFICATION TESTING MIL-H-38534 COMPLIANT: 17

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MANUFACTURER	CAGE CODE	SYMBOL CODE
Apex Microtechnology Corporation 5980 North Shannon Road Tucson, AZ 85741	60024	CFAB

QUALIFICATION LETTER(S)	PRODUCT CLASS DESIGNATOR	RADIATION HARDNESS LEVEL	TECHNOLOGY TYPES
EQ(EQC-89-071) EQ(EQC-91-347)	Class H	N/A	Power Operational Amplifier

SUBSTRATE FABRICATION OPERATION(S) 1/

LOCATION: Tucson, AZ FLOW: FLOW 01 CAPABILITY: thick film on beryllium oxide, 1 conductor level, resistors	LOCATION: N/A FLOW: N/A CAPABILITY: N/A

ASSEMBLY OPERATION(S) 1/

LOCATION: Tucson, AZ FLOW: FLOW 10, FLOW 99 CAPABILITY: polymer conductive epoxy, solder; aluminum wire bonding	LOCATION: N/A FLOW: N/A CAPABILITY: N/A

ADD-ON ELEMENTS: unpackaged die, chip capacitors
SUBSTRATE ATTACH: solder

PACKAGE INFORMATION 1/ 2/ 3/

PACKAGE TYPE:	TO can		
SEAL METHOD:	projection weld		
LEAD COUNT:	8		
SEAL PERIMETER:	2.67		
LEAD FINISH:	gold		

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MANUFACTURER	CAGE CODE	SYMBOL CODE
Apex Microtechnology Corporation 5980 North Shannon Road Tucson, AZ 85741	60024	CFAB

PRODUCT ELIGIBILITY: The above manufacturer has certified that the following listing of hybrid microcircuits are built, tested, and shipped using the above certified FLOW/ QUALIFIED MATERIALS AND MANUFACTURING TECHNIQUES and are in **FULL COMPLIANCE** with **MIL-H-38534** and **MIL-STD-1772** requirements.
The listing does not in anyway represent or imply interchangeability, equivalency.

SPECIFIC PRODUCT TYPES

STANDARDIZED MILITARY DRAWING (SMD)	ESDS CLASS	MANUFACTURER SIMILAR PART NUMBER 4/	PRODUCT TYPE/DESCRIPTION	SHIPPED
5962-8762002HXX	1	PA51M/883	High power operational amplifier	Yes
5962-9063801HXX	1	PA07M/883	Power operational amplifier	Yes
5962-9065901HXX	1	PA12M/883	Operational amplifier, power	Yes
5962-9067901HXX	1	PA02M/883	Power operational amplifier	Yes
5962-9072301HXX	1	PA08M/883	Power operational amplifier	No
5962-9082801HXX	1	PA10M/883	Power operational amplifier	Yes
5962-9162101HXX	1	PA83M/883	Power operational amplifier	Yes
5962-9073601HXX	1	PA84M/883	Power operational amplifier	No
5962-9170001HXX	1	PA09M/883	Power operational amplifier	Yes

NUMBER OF SCD/SID DEVICES COVERED BY QUALIFICATION TESTING MIL-H-38534 COMPLIANT: 113

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MANUFACTURER	CAGE CODE	SYMBOL CODE
Beckman Industrial Corporation Electronic Technologies Division 4141 Palm Street Fullerton, California 92635	73138	CEXB

QUALIFICATION LETTER(S)	PRODUCT CLASS DESIGNATOR	RADIATION HARDNESS LEVEL	TECHNOLOGY TYPES
EQ(EQC-89-071) EQ(EQC-91-718)	Class H	N/A	Data Converters Voltage Regulator Analog

SUBSTRATE FABRICATION OPERATION (S) 1/

LOCATION: Fullerton, CA FLOW: 800-403-1 CAPABILITY: thick film on alumina, 3 conductor level, resistors	LOCATION: N/A FLOW: N/A CAPABILITY: N/A

ASSEMBLY OPERATION(S) 1/

LOCATION: Fullerton, CA FLOW: 800-403-1 CAPABILITY: polymer conductive/nonconductive epoxy, eutectic; gold wire bonding	LOCATION: N/A FLOW: N/A CAPABILITY: N/A

ADD-ON ELEMENTS: unpackaged die, chip capacitors, chip resistors, molytabs
SUBSTRATE ATTACH: polymer nonconductive epoxy

PACKAGE INFORMATION 1/ 2/ 3/

PACKAGE TYPE:	metal ,with peripheral leads	ceramic, dual-in-line	
SEAL METHOD:	seam weld	seam weld	
LEAD COUNT:	38	44	
SEAL PERIMETER:	3.58	6.87	
LEAD FINISH:	solder	gold	

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MANUFACTURER	CAGE CODE	SYMBOL CODE
Beckman Industrial Corporation Electronic Technologies Division 4141 Palm Street Fullerton, California 92635	73138	CEXB

PRODUCT ELIGIBILITY: The above manufacturer has certified that the following listing of hybrid microcircuits are built, tested, and shipped using the above certified FLOW/ QUALIFIED MATERIALS AND MANUFACTURING TECHNIQUES and are in **FULL COMPLIANCE** with **MIL-H-38534** and **MIL-STD-1772** requirements.
The listing does not in anyway represent or imply interchangeability, equivalency.

SPECIFIC PRODUCT TYPES

STANDARDIZED MILITARY DRAWING (SMD)	ESDS CLASS	MANUFACTURER SIMILAR PART NUMBER 4/	PRODUCT TYPE/DESCRIPTION	SHIPPED
None	N/A	N/A	N/A	N/A

NUMBER OF SCD/SID DEVICES COVERED BY QUALIFICATION TESTING MIL-H-38534 COMPLIANT: 0

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MANUFACTURER	CAGE CODE	SYMBOL CODE
Boeing Electronics Company 20403 Sixty-Eighth Avenue South Kent, Washington 98124	81205	CEUW

QUALIFICATION LETTER(S)	RADIATION HARDNESS LEVEL	TECHNOLOGY TYPES
EQ(EQM-87-2947) EQ(EQC(91-624) EQ(EQC-91-046) EQ(EQC(91-438) EQ(EQC-91-079) EQ(EQC-91-228) EQ(EQC-91-630) EQ(EQC-91-672)	N/A **PRODUCT CLASS DESIGNATOR** Class H	Custom

SUBSTRATE FABRICATION OPERATION (S) 1/

LOCATION: Kent, WA FLOW: D900-10476-1-2 CAPABILITY: thick film on alumina, 10 conductor levels, resistors; thick film on beryllia, 5 conductor levels	LOCATION: N/A FLOW: N/A CAPABILITY: N/A

ASSEMBLY OPERATION(S) 1/

LOCATION: Kent, WA FLOW: D900-10476-1-2 CAPABILITY: polymer conductive/nonconductive epoxy, eutectic; gold wire and ribbon bonding	LOCATION: N/A FLOW: N/A CAPABILITY: N/A

ADD-ON ELEMENTS: unpackaged die, chip capacitors, tabs
SUBSTRATE ATTACH: polymer nonconductive epoxy

PACKAGE INFORMATION 1/ 2/ 3/

PACKAGE TYPE:	metal,with axial leads	metal, with peripheral leads	
SEAL METHOD:	seam weld	seam weld	
LEAD COUNT:	30	94	
SEAL PERIMETER:	5.86	9.16	
LEAD FINISH:	gold	gold	

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MANUFACTURER	CAGE CODE	SYMBOL CODE
Boeing Electronics Company 20403 Sixty-Eighth Avenue South Kent, Washington 98124	81205	CEUW

PRODUCT ELIGIBILITY: The above manufacturer has certified that the following listing of hybrid microcircuits are built, tested, and shipped using the above certified FLOW/ QUALIFIED MATERIALS AND MANUFACTURING TECHNIQUES and are in **FULL COMPLIANCE** with **MIL-H-38534** and **MIL-STD-1772** requirements.
The listing does not in anyway represent or imply interchangeability, equivalency.

SPECIFIC PRODUCT TYPES

STANDARDIZED MILITARY DRAWING (SMD)	ESDS CLASS	MANUFACTURER SIMILAR PART NUMBER 4/	PRODUCT TYPE/DESCRIPTION	SHIPPED
None	N/A	N/A	N/A	N/A

NUMBER OF SCD/SID DEVICES COVERED BY QUALIFICATION TESTING MIL-H-38534 COMPLIANT: 5

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MANUFACTURER	CAGE CODE	SYMBOL CODE
CTS Microelectronics 1201 Cumberland Avenue West Lafayette, Indiana 47906	23223	CEUR

QUALIFICATION LETTER(S)	PRODUCT CLASS DESIGNATOR	RADIATION HARDNESS LEVEL	TECHNOLOGY TYPES
EQ(EQC-92-787)	Class H	N/A	Analog Converter

SUBSTRATE FABRICATION OPERATION (S) 1/

LOCATION: West Lafayette, IN FLOW: STD-THINFLM-BD1 CAPABILITY: thin film on alumina, 1 conductor level, resistors	LOCATION: N/A FLOW: N/A CAPABILITY: N/A

ASSEMBLY OPERATION(S) 1/

LOCATION: West Lafayette, IN FLOW: STD-C&W-1772 CAPABILITY: eutectic; gold wire bonding	LOCATION: N/A FLOW: N/A CAPABILITY: N/A

ADD-ON ELEMENTS: unpackaged die
SUBSTRATE ATTACH: polymer nonconductive epoxy

PACKAGE INFORMATION 1/ 2/ 3/

PACKAGE TYPE:	TO can		
SEAL METHOD:	projection weld		
LEAD COUNT:	12		
SEAL PERIMETER:	2.75		
LEAD FINISH:	gold & solder		

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MANUFACTURER	CAGE CODE	SYMBOL CODE
CTS Microelectronics 1201 Cumberland Avenue West Lafayette, Indiana 47906	23223	CEUR

PRODUCT ELIGIBILITY: The above manufacturer has certified that the following listing of hybrid microcircuits are built, tested, and shipped using the above certified FLOW/ QUALIFIED MATERIALS AND MANUFACTURING TECHNIQUES and are in **FULL COMPLIANCE** with **MIL-H-38534** and **MIL-STD-1772** requirements.
The listing does not in anyway represent or imply interchangeability, equivalency.

SPECIFIC PRODUCT TYPES

STANDARDIZED MILITARY DRAWING (SMD)	ESDS CLASS	MANUFACTURER SIMILAR PART NUMBER 4/	PRODUCT TYPE/DESCRIPTION	SHIPPED
7801301XX	1	CTS0002	Amplifier, current, thick/thin film	Yes
7801301GX	1	CTS0002XB	Amplifier, current, thick/thin film	Yes

NUMBER OF SCD/SID DEVICES COVERED BY QUALIFICATION TESTING MIL-H-38534 COMPLIANT: 7

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MANUFACTURER	CAGE CODE	SYMBOL CODE
Canadian Marconi Company 2442 Trenton Avenue Montreal, Quebec, Canada H3P 1Y9	90073	CDDF

QUALIFICATION LETTER(S)	PRODUCT CLASS DESIGNATOR	RADIATION HARDNESS LEVEL	TECHNOLOGY TYPES
EQ(EQC-91-720)	Class H	N/A	Voltage Regulator

SUBSTRATE FABRICATION OPERATION (S) 1/

LOCATION: Montreal, Canada FLOW: 411-146425-000 CAPABILITY: Thick film on alumina, 1 conductor levels, resistors	LOCATION: N/A FLOW: N/A CAPABILITY: N/A

ASSEMBLY OPERATION(S) 1/

LOCATION: Montreal, Canada FLOW: 411-146426-000 CAPABILITY: polymer conductive and nonconductive epoxy, eutectic, gold wire bonding.	LOCATION: N/A FLOW: N/A CAPABILITY: N/A

ADD-ON ELEMENTS: unpackaged die, chip capacitor.
SUBSTRATE ATTACH: polymer nonconductive epoxy.

PACKAGE INFORMATION 1/ 2/ 3/

PACKAGE TYPE:	metal, with axial leads		
SEAL METHOD:	seam weld		
LEAD COUNT:	16		
SEAL PERIMTER:	3.61		
LEAD FINISH:	gold		

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MANUFACTURER	CAGE CODE	SYMBOL CODE
Canadian Marconi Company 2442 Trenton Avenue Montreal, Quebec Canada H3P 1Y9	90073	CDDF

PRODUCT ELIGIBILITY: The above manufacturer has certified that the following listing of hybrid microcircuits are built, tested, and shipped using the above certified FLOW/ QUALIFIED MATERIALS AND MANUFACTURING TECHNIQUES and are in **FULL COMPLIANCE** with **MIL-H-38534** and **MIL-STD-1772** requirements.
The listing does not in anyway represent or imply interchangeability, equivalency.

SPECIFIC PRODUCT TYPES

STANDARDIZED MILITARY DRAWING (SMD)	ESDS CLASS	MANUFACTURER SIMILAR PART NUMBER 4/	PRODUCT TYPE/DESCRIPTION	SHIPPED
None	N/A	N/A	N/A	N/A

NUMBER OF SCD/SID DEVICES COVERED BY QUALIFICATION TESTING MIL-H-38534 COMPLIANT: 0

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MANUFACTURER	CAGE CODE	SYMBOL CODE
Comlinear Corporation 4800 Wheaton Drive Fort Collins, Colorado 80525	62839	CEYA

QUALIFICATION LETTER(S)	PRODUCT CLASS DESIGNATOR	RADIATION HARDNESS LEVEL	TECHNOLOGY TYPES
EQ(EQC-89-0244) EQ(EQC-90-0392) EQ(EQC-90-0393) EQ(EQC-91-0704) EQ(EQC-91-746)	Class H	N/A	Data Converters Op-Amp

SUBSTRATE FABRICATION OPERATION (S) 1/

LOCATION: Fort Collins, CO FLOW: TFS-01-001 CAPABILITY: thin film on alumina, 1 conductor level, resistors	LOCATION: N/A FLOW: N/A CAPABILITY: N/A

ASSEMBLY OPERATION(S) 1/

LOCATION: Fort Collins, CO FLOW: PDS-01-001 CAPABILITY: polymer conductive/nonconductive epoxy; gold wire bonding	LOCATION: N/A FLOW: N/A CAPABILITY: N/A

ADD-ON ELEMENTS: unpackaged die,chip capacitors, chip resistors
SUBSTRATE ATTACH: polymer nonconductive epoxy

PACKAGE INFORMATION 1/ 2/ 3/

PACKAGE TYPE:	TO can	Ceramic daul-in-line	
SEAL METHOD:	projection weld	Seam weld	
LEAD COUNT:	12	40	
SEAL PERIMETER:	1.81	6.22	
LEAD FINISH:	Gold & solder	Gold & solder	

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MANUFACTURER	CAGE CODE	SYMBOL CODE
Comlinear Corporation 4800 Wheaton Drive Fort Collins, Colorado 80525	62839	CEYA

PRODUCT ELIGIBILITY: The above manufacturer has certified that the following listing of hybrid microcircuits are built, tested, and shipped using the above certified FLOW/ QUALIFIED MATERIALS AND MANUFACTURING TECHNIQUES and are in **FULL COMPLIANCE** with **MIL-H-38534** and **MIL-STD-1772** requirements.
The listing does not in anyway represent or imply interchangeability, equivalency.

SPECIFIC PRODUCT TYPES

STANDARDIZED MILITARY DRAWING (SMD)	ESDS CLASS	MANUFACTURER SIMILAR PART NUMBER 4/	PRODUCT TYPE/DESCRIPTION	SHIPPED
5962-8959401XX	1	CLC231A8C	Op amp, wideband, high speed	Yes
5962-8985801XX	1	CLC206A8C	Op amp, wideband	Yes
5962-8991001XX	1	CLC200A8C	Op amp, wideband, high speed	Yes
5962-8991101XX	1	CLC220A8C	Op amp, wideband	Yes
5962-9083301HXX	1	CLC201A8C	Op amp, wideband	No
5962-9083501HXX	1	CLC205A8C	Op amp, wideband	No
5962-9083601HXX	1	CLC221A8C	Op amp, wideband	NO
5962-9097701HXX	1	CLC207A8C	Op amp, wideband, low distortion	No
5962-9099501HXX	1	CLC925B8C	12-bit, A/D converter	No
5962-9166501HXX	1	CLC232A8C	Op amp, wideband, low distortion	No

NUMBER OF SCD/SID DEVICES COVERED BY QUALIFICATION TESTING MIL-H-38534 COMPLIANT: 2

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MANUFACTURER	CAGE CODE	SYMBOL CODE
Datel Incorporated 11 Cabot Boulevard Mansfield, MA 02048-1194	50721	CFAT

QUALIFICATION LETTER(S)	PRODUCT CLASS DESIGNATOR	RADIATION HARDNESS LEVEL	TECHNOLOGY TYPES
EQ(EQC-90-0626) EQ(EQC-90-0677) EQ(EQC-91-029)	Class H	N/A	Digital

SUBSTRATE FABRICATION OPERATION (S) 1/

LOCATION: Mansfield, MA FLOW: D-4552 CAPABILITY: thick film on alumina, 2 conductor levels	LOCATION: N/A FLOW: N/A CAPABILITY: N/A

ASSEMBLY OPERATION(S) 1/

LOCATION: Mansfield, MA FLOW: D-4552 CAPABILITY: polymer conductive/nonconductive epoxy; gold wire bonding	LOCATION: N/A FLOW: N/A CAPABILITY: N/A

ADD-ON ELEMENTS: unpackaged die, chip capacitors, chip resistors
SUBSTRATE ATTACH: polymer noncondutive epoxy

PACKAGE INFORMATION 1/ 2/ 3/

PACKAGE TYPE:	ceramic dual-in-line		
SEAL METHOD:	seam weld		
LEAD COUNT:	32		
SEAL PERIMETER:	5.57		
LEAD FINISH:	gold		

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MANUFACTURER	CAGE CODE	SYMBOL CODE
Datel Incorporated 11 Cabot Boulevard Mansfield, MA 02048-1194	50721	CFAT

PRODUCT ELIGIBILITY: The above manufacturer has certified that the following listing of hybrid microcircuits are built, tested, and shipped using the above certified FLOW/ QUALIFIED MATERIALS AND MANUFACTURING TECHNIQUES and are in **FULL COMPLIANCE** with **MIL-H-38534** and **MIL-STD-1772** requirements.
The listing does not in anyway represent or imply interchangeability, equivalency.

SPECIFIC PRODUCT TYPES

STANDARDIZED MILITARY DRAWING (SMD)	ESDS CLASS	MANUFACTURER SIMILAR PART NUMBER 4/	PRODUCT TYPE/DESCRIPTION	SHIPPED
5962-8850801XX	1	ADC-HX/883B	A/D Conv., 12-bit, 20µs conversion time	Yes
5962-8850802XX	1	ADC-Hz/883B	A/D Conv., 12-bit, 8µs conversion time	Yes
5962-8952801XX	1	DAC HKB/883B	D/A Conv.,12-bit, binary input code	Yes
5962-8952802XX	1	DAC HKB-2/883B	D/A Conv.,12-bit, two's complement	Yes
5962-8953101XX	1	DAC HPB/883B	D/A Conv.,16-bit,0 to +10,±5 volts output	Yes
5962-8953102XX	1	DAC HPB-1/883B	D/A Conv.,16-bit,±10 volts output	Yes

NUMBER OF SCD/SID DEVICES COVERED BY QUALIFICATION TESTING MIL-H-38534 COMPLIANT: 17

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MANUFACTURER	CAGE CODE	SYMBOL CODE
Elantec Incorporated 1996 Tarob Court Milpitas, California 95035	64762	CEWO

QUALIFICATION LETTER(S)	PRODUCT CLASS DESIGNATOR	RADIATION HARDNESS LEVEL	TECHNOLOGY TYPES
EQ(EQM-88-1646) EQ(EQC-90-0804)	Class H	N/A	Analog Converter Power Converter

SUBSTRATE FABRICATION OPERATION (S) 1/

LOCATION: Milpitas, CA FLOW: FCA-0002 CAPABILITY: thick film on alumina, 1 conductor level, resistors	LOCATION: N/A FLOW: N/A CAPABILITY: N/A

ASSEMBLY OPERATION(S) 1/

LOCATION: Milpitas, CA FLOW: FCA-0004, FCA-0008, FCA-0015 CAPABILITY: eutectic; aluminum & gold wire bonding	LOCATION: N/A FLOW: N/A CAPABILITY: N/A

ADD-ON ELEMENTS: unpackaged die
SUBSTRATE ATTACH: solder, polymer nonconductive epoxy

PACKAGE INFORMATION 1/ 2/ 3/

PACKAGE TYPE:	TO can		
SEAL METHOD:	projection weld		
LEAD COUNT:	12		
SEAL PERIMETER:	2.31		
LEAD FINISH:	gold & solder		

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MANUFACTURER	CAGE CODE	SYMBOL CODE
Elantec Incorporated 1996 Tarob Court Milpitas, California 95035	64762	CEWO

PRODUCT ELIGIBILITY: The above manufacturer has certified that the following listing of hybrid microcircuits are built, tested, and shipped using the above certified FLOW/ QUALIFIED MATERIALS AND MANUFACTURING TECHNIQUES and are in **FULL COMPLIANCE** with **MIL-H-38534** and **MIL-STD-1772** requirements.
The listing does not in anyway represent or imply interchangeability, equivalency.

SPECIFIC PRODUCT TYPES

STANDARDIZED MILITARY DRAWING (SMD)	ESDS CLASS	MANUFACTURER SIMILAR PART NUMBER 4/	PRODUCT TYPE/DESCRIPTION	SHIPPED
7801301XX	1	0002	Amplifier, current, thick film	Yes
8001301ZX	1	0032	Op amp, thick film	Yes
8001401ZX	1	0033	Hi Speed Buffer Amp, Volt. Foll., FET in	Yes
8508701ZX	1	0041	Hi Power Op Amp, Ext. Comp., 0.2A Out.	Yes
8508801YX	1	ELH0021K	Hi pwr. Op amp,ext. comp.,1.0A Out.	Yes
8508901YX	1	ELH0101AK	Hi pwr. Op amp,wideband, thick flim	Yes
8508902YX	1	ELH0101K	Hi pwr. Op amp,wideband, thick film	Yes
5962-8965901XX	1	EL2004G/883B	Buffer amp, FET in.	Yes

NUMBER OF SCD/SID DEVICES COVERED BY QUALIFICATION TESTING MIL-H-38534 COMPLIANT: 1

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MANUFACTURER	CAGE CODE	SYMBOL CODE
Film Microelectronics Incorporated 10-B Centennial Drive Peabody, Massachusetts 01960	27851	CEYB

QUALIFICATION LETTER(S)	PRODUCT CLASS DESIGNATOR	RADIATION HARDNESS LEVEL	TECHNOLOGY TYPES
EQ(EQC-89-233)	Class H	N/A	Power (Buffer) Bi-polar

SUBSTRATE FABRICATION OPERATION (S) 1/

LOCATION: Burlington, MA FLOW: 52-0069 CAPABILITY: thin film on Beryllia, 1 conductor level	LOCATION: N/A FLOW: N/A CAPABILITY: N/A

ASSEMBLY OPERATION(S) 1/

LOCATION: Peabody, MA FLOW: 52-0015 CAPABILITY: polymer conductive epoxy; gold wire bonding	LOCATION: N/A FLOW: N/A CAPABILITY: N/A

ADD-ON ELEMENTS: unpackaged die, chip capacitors, chip resistors
SUBSTRATE ATTACH: polymer nonconductive epoxy

PACKAGE INFORMATION 1/ 2/ 3/

PACKAGE TYPE:	metal,with peripheral leads		
SEAL METHOD:	seam weld		
LEAD COUNT:	19		
SEAL PERIMETER:	4.78		
LEAD FINISH:	gold		

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MANUFACTURER	CAGE CODE	SYMBOL CODE
Film Microelectronics Incorporated 10-B Centennial Drive Peabody, Massachusetts 01960	27851	CEYB

PRODUCT ELIGIBILITY: The above manufacturer has certified that the following listing of hybrid microcircuits are built, tested, and shipped using the above certified FLOW/ QUALIFIED MATERIALS AND MANUFACTURING TECHNIQUES and are in **FULL COMPLIANCE** with **MIL-H-38534** and **MIL-STD-1772** requirements.
The listing does not in anyway represent or imply interchangeability, equivalency.

SPECIFIC PRODUCT TYPES

STANDARDIZED MILITARY DRAWING (SMD)	ESDS CLASS	MANUFACTURER SIMILAR PART NUMBER 4/	PRODUCT TYPE/DESCRIPTION	SHIPPED
None	N/A	N/A	N/A	N/A

NUMBER OF SCD/SID DEVICES COVERED BY QUALIFICATION TESTING MIL-H-38534 COMPLIANT: 0

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MANUFACTURER	CAGE CODE	SYMBOL CODE
General Microcircuits Corporation 780 Boston Road Billerica, Massachusetts 08121	67294	CEYC

QUALIFICATION LETTER(S)	PRODUCT CLASS DESIGNATOR	RADIATION HARDNESS LEVEL	TECHNOLOGY TYPES
EQ(EQC-89-0235)	Class H	N/A	Custom

SUBSTRATE FABRICATION OPERATION (S) 1/

LOCATION: Billerica, MA FLOW: 10000 CAPABILITY: thin film on alumina, 1 conductor level, resistors	LOCATION: N/A FLOW: N/A CAPABILITY: N/A

ASSEMBLY OPERATION(S) 1/

LOCATION: Billerica, MA FLOW: 10000 CAPABILITY: polymer conductive epoxy; gold wire bonding	LOCATION: N/A FLOW: N/A CAPABILITY: N/A

ADD-ON ELEMENTS: unpackaged die, chip capacitors
SUBSTRATE ATTACH: polymer nonconductive epoxy

PACKAGE INFORMATION 1/ 2/ 3/

PACKAGE TYPE:	metal,with peripheral leads		
SEAL METHOD:	seam weld		
LEAD COUNT:	22		
SEAL PERIMETER:	2.05		
LEAD FINISH:	gold		

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MANUFACTURER	CAGE CODE	SYMBOL CODE
General Microcircuits Corporation 780 Boston Road Billerica, Massachusetts 08121	67294	CEYC

PRODUCT ELIGIBILITY: The above manufacturer has certified that the following listing of hybrid microcircuits are built, tested, and shipped using the above certified FLOW/ QUALIFIED MATERIALS AND MANUFACTURING TECHNIQUES and are in **FULL COMPLIANCE** with **MIL-H-38534** and **MIL-STD-1772** requirements.
The listing does not in anyway represent or imply interchangeability, equivalency.

SPECIFIC PRODUCT TYPES

STANDARDIZED MILITARY DRAWING (SMD)	ESDS CLASS	MANUFACTURER SIMILAR PART NUMBER 4/	PRODUCT TYPE/DESCRIPTION	SHIPPED
None	N/A	N/A	N/A	N/A

NUMBER OF SCD/SID DEVICES COVERED BY QUALIFICATION TESTING MIL-H-38534 COMPLIANT: 0

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MANUFACTURER	CAGE CODE	SYMBOL CODE
Hewlett-Packard Company Optical Communications Division 370 West Trimble Road San Jose, California 95131	50434	CEUS

QUALIFICATION LETTER(S)	PRODUCT CLASS DESIGNATOR	RADIATION HARDNESS LEVEL	TECHNOLOGY TYPES
EQ(EQM-87-2594) EQ(EQM-88-1265) EQ(EQC-90-0754)	Class H	N/A	Optocoupler

SUBSTRATE FABRICATION OPERATION (S) 1/

LOCATION: San Jose, CA FLOW: 5956-9439-20,5956-8000-20,5956-9523-30,5956-9526-30 CAPABILITY: light emitting diode fabrication ,integrated circuit fabrication	LOCATION: N/A FLOW: N/A CAPABILITY: N/A

ASSEMBLY OPERATION(S) 1/

LOCATION: San Jose, CA FLOW: 1CP1-0016-3 CAPABILITY: eutectic; gold and aluminum wire bonding	LOCATION: N/A FLOW: N/A CAPABILITY: N/A

ADD-ON ELEMENTS: unpackaged die
SUBSTRATE ATTACH: eutectic, solder

PACKAGE INFORMATION 1/ 2/ 3/

PACKAGE TYPE:	ceramic dual-in-line	leadless chip carrier	
SEAL METHOD:	solder	solder	
LEAD COUNT:	16	20	
SEAL PERIMETER:	1.28	0.92	
LEAD FINISH:	gold, solder	solder	

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MANUFACTURER	CAGE CODE	SYMBOL CODE
Hewlett-Packard Company Optical Communications Division 370 West Trimble Road San Jose, California 95131	50434	CEUS

PRODUCT ELIGIBILITY: The above manufacturer has certified that the following listing of hybrid microcircuits are built, tested, and shipped using the above certified FLOW/ QUALIFIED MATERIALS AND MANUFACTURING TECHNIQUES and are in **FULL COMPLIANCE** with **MIL-H-38534** and **MIL-STD-1772** requirements.
The listing does not in anyway represent or imply interchangeability, equivalency.

SPECIFIC PRODUCT TYPES

STANDARDIZED MILITARY DRAWING (SMD)	ESDS CLASS	MANUFACTURER SIMILAR PART NUMBER 4/	PRODUCT TYPE/DESCRIPTION	SHIPPED
8102801EX	3	6N134	Optocoupler, dual channel	Yes
8102802PX	3	HCPL-5631	Optocoupler, dual channel	No
81028032X	1	HCPL-6631	Optocoupler, dual channel	No
8302401EX	3	6N140A	Optocoupler, quad	Yes
5962-8767901EX	1	4N55/883B	Optocoupler, dual channel	Yes
5962-8767902PX	3	HCPL-5531	Optocoupler, dual channel	Yes
5962-87679032A	1	HCPL-6531	Optocoupler, dual channel	Yes
5962-8876801PX	1	HCPL-5201	Optocoupler, single channel	Yes
5962-8876901PX	3	HCPL-5231	Optocoupler, dual channel	Yes
5962-88769022X	1	HCPL-6231	Optocoupler, dual channel	Yes
5962-8947701PX	2	HCPL-5761	Optocoupler, AC/DC logic interface	Yes
5962-8957001PX	2	HCPL-5401	Optocoupler, high speed, single channel	Yes
5962-8957101PX	3	HCPL-5431	Optocoupler, high speed, dual channel	Yes
5962-89571022X	3	HCPL-6431	Optocoupler, dual channel, high speed	Yes
5962-8957201EX	1	HCPL-1931	Optocoupler-line receiver, dual channel	Yes

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MANUFACTURER	CAGE CODE	SYMBOL CODE
Hewlett-Packard Company Optical Communications Division 370 West Trimble Road San Jose, California 95131	50434	CEUS

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SPECIFIC PRODUCT TYPES

STANDARDIZED MILITARY DRAWING (SMD)	ESDS CLASS	MANUFACTURER SIMILAR PART NUMBER 4/	PRODUCT TYPE/DESCRIPTION	SHIPPED
5962-8978501PX	3	HCPL-5731	Optocoupler, dual channel	Yes
5962-89785022X	2	HCPL-6731	Optocoupler, dual channel, LCC package	Yes
5962-8981001PX	2	HCPL-5701	Optocoupler, single channel, high gain	Yes
5962-9085401HPX	1	HCPL-5501	Optocoupler, single ch.,transistr out	Yes
5962-9085501HPX	1	HCPL-5601	Optocoupler, dual channel	Yes

NUMBER OF SCD/SID DEVICES COVERED BY QUALIFICATION TESTING MIL-H-38534 COMPLIANT: 21

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MANUFACTURER	CAGE CODE	SYMBOL CODE
Honeywell Incorporated Sperry Central Manufacturing 21111 North Nineteenth Avenue Phoenix, Arizona 85036	58960	CEUT

QUALIFICATION LETTER(S)	PRODUCT CLASS DESIGNATOR	RADIATION HARDNESS LEVEL	TECHNOLOGY TYPES
EQ(EQM-87-1933) EQ(EQC-90-0768)	Class H	N/A	Analog Digital Drive controller

SUBSTRATE FABRICATION OPERATION (S) 1/

LOCATION: Phoenix, AZ FLOW: 51549 CAPABILITY: thick film on alumina, 2 conductor levels, resistors	LOCATION: N/A FLOW: N/A CAPABILITY: N/A

ASSEMBLY OPERATION(S) 1/

LOCATION: Phoenix, AZ FLOW: 51550 CAPABILITY: polymer conductive/noncoductive epoxy; gold wire bonding	LOCATION: N/A FLOW: N/A CAPABILITY: N/A

ADD-ON ELEMENTS: unpackaged die
SUBSTRATE ATTACH: eutectic

PACKAGE INFORMATION 1/ 2/ 3/

PACKAGE TYPE:	metal,with peripheral leads		
SEAL METHOD:	seam weld		
LEAD COUNT:	36		
SEAL PERIMETER:	3.5		
LEAD FINISH:	gold		

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MANUFACTURER	CAGE CODE	SYMBOL CODE
Honeywell Incorporated Sperry Central Manufacturing 21111 North Nineteenth Avenue Phoenix, Arizona 85036	58960	CEUT

PRODUCT ELIGIBILITY: The above manufacturer has certified that the following listing of hybrid microcircuits are built, tested, and shipped using the above certified FLOW/ QUALIFIED MATERIALS AND MANUFACTURING TECHNIQUES and are in **FULL COMPLIANCE** with **MIL-H-38534** and **MIL-STD-1772** requirements.
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SPECIFIC PRODUCT TYPES

STANDARDIZED MILITARY DRAWING (SMD)	ESDS CLASS	MANUFACTURER SIMILAR PART NUMBER 4/	PRODUCT TYPE/DESCRIPTION	SHIPPED
None	N/A	N/A	N/A	N/A

NUMBER OF SCD/SID DEVICES COVERED BY QUALIFICATION TESTING MIL-H-38534 COMPLIANT: 1

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MANUFACTURER	CAGE CODE	SYMBOL CODE
Hughes Aircraft Company Microelectronics Circuit Division Space Business Unit 500 Superior Avenue Building 700 P. O. Box H Newport Beach, California 92658-8903	55267	CEYN

QUALIFICATION LETTER(S)	PRODUCT CLASS DESIGNATOR	RADIATION HARDNESS LEVEL	TECHNOLOGY TYPES
EQ(EQC-89-341)	Class H	N/A	Analog Digital

SUBSTRATE FABRICATION OPERATION (S) 1/

LOCATION: Space Businees Unit, Newport Beach, CA FLOW: 1051091 CAPABILITY: thick film on alumina, 1 conductor level, resistors	LOCATION: N/A FLOW: N/A CAPABILITY: N/A

ASSEMBLY OPERATION(S) 1/

LOCATION: Space Business Unit, Newport Beach, CA FLOW: 1120379 CAPABILITY: polymer conductive epoxy, eutectic; gold wire bonding	LOCATION: N/A FLOW: N/A CAPABILITY: N/A

ADD-ON ELEMENTS: unpackaged die, chip capacitors, molytab
SUBSTRATE ATTACH: polymer nonconductive epoxy

PACKAGE INFORMATION 1/ 2/ 3/

PACKAGE TYPE:	metal,with axial leads		
SEAL METHOD:	seam weld		
LEAD COUNT:	22		
SEAL PERIMETER:	2.03		
LEAD FINISH:	gold		

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MANUFACTURER	CAGE CODE	SYMBOL CODE
Hughes Aircraft Company Microelectronics Circuit Division Multichip Microcircuit Business Unit (E1000) 500 Superior Avenue Building 700 P. O. Box H Newport Beach, California 92658-8903	55267	CEYN

QUALIFICATION LETTER(S)	PRODUCT CLASS DESIGNATOR	RADIATION HARDNESS LEVEL	TECHNOLOGY TYPES
EQ(EQC-90-326)	Class H	N/A	Analog Digital

SUBSTRATE FABRICATION OPERATION (S) 1/

LOCATION: Multichip Microcircuit Business Unit, Newport, CA FLOW: 1051089 CAPABILITY: thin film on alumina, 1 conductor level, resistors	LOCATION: N/A FLOW: N/A CAPABILITY: N/A

ASSEMBLY OPERATION(S) 1/

LOCATION: Multichip Microcuit Business Unit, Newport,CA FLOW: 1050994 CAPABILITY: polymer conductive epoxy, eutectic; gold wire bonding	LOCATION: N/A FLOW: N/A CAPABILITY: N/A

ADD-ON ELEMENTS: unpackaged die, chip capacitors, chip resistor
SUBSTRATE ATTACH: polymer nonconductive epoxy

PACKAGE INFORMATION 1/ 2/ 3/

PACKAGE TYPE:	leadless chip carrier		
SEAL METHOD:	seam weld		
LEAD COUNT:	68		
SEAL PERIMETER:	4.25		
LEAD FINISH:	solder		

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MANUFACTURER	CAGE CODE	SYMBOL CODE
Hughes Aircraft Company Microelectronics Circuit Division Space/Multichip Micro. Business Unit 500 Superior Avenue Building 700 P. O. Box H Newport Beach, California 92658	55267	CEYN

PRODUCT ELIGIBILITY: The above manufacturer has certified that the following listing of hybrid microcircuits are built, tested, and shipped using the above certified FLOW/ QUALIFIED MATERIALS AND MANUFACTURING TECHNIQUES and are in **FULL COMPLIANCE** with **MIL-H-38534** and **MIL-STD-1772** requirements.
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SPECIFIC PRODUCT TYPES

STANDARDIZED MILITARY DRAWING (SMD)	ESDS CLASS	MANUFACTURER SIMILAR PART NUMBER 4/	PRODUCT TYPE/DESCRIPTION	SHIPPED
None	N/A	N/A	N/A	N/A

NUMBER OF SCD/SID DEVICES COVERED BY QUALIFICATION TESTING MIL-H-38534 COMPLIANT: 0

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MANUFACTURER	CAGE CODE	SYMBOL CODE
Hycomp Incorporated 165 Cedar Hill Street Marlborough, Massachusetts 01752	34707	CEYP

QUALIFICATION LETTER(S)	PRODUCT CLASS DESIGNATOR	RADIATION HARDNESS LEVEL	TECHNOLOGY TYPES
EQ(EQC-89-421)	Class H	N/A	Voltage Reference Analog

SUBSTRATE FABRICATION OPERATION (S) 1/

LOCATION: Marlborough, MA FLOW: EMA-75 CAPABILITY: thin film on alumina, 1 conductor level, resistors	LOCATION: N/A FLOW: N/A CAPABILITY: N/A

ASSEMBLY OPERATION(S) 1/

LOCATION: Marlborough, MA FLOW: EMA-75 CAPABILITY: polymer conductive/nonconductive epoxy; gold wire bonding	LOCATION: N/A FLOW: N/A CAPABILITY: N/A

ADD-ON ELEMENTS: unpackaged die, chip capacitors, chip resistors
SUBSTRATE ATTACH: polymer nonconductive epoxy

PACKAGE INFORMATION 1/ 2/ 3/

PACKAGE TYPE:	ceramic dual-in-line		
SEAL METHOD:	seam weld		
LEAD COUNT:	10		
SEAL PERIMETER:	2.9		
LEAD FINISH:	gold		

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MANUFACTURER	CAGE CODE	SYMBOL CODE
Hycomp Incorporated 165 Cedar Hill Street Marlborough, Massachusetts 01752	34707	CEYP

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SPECIFIC PRODUCT TYPES

STANDARDIZED MILITARY DRAWING (SMD)	ESDS CLASS	MANUFACTURER SIMILAR PART NUMBER 4/	PRODUCT TYPE/DESCRIPTION	SHIPPED
8503001YX	1	2700SD	Reference, Precision Voltage, +10V	No
8503002YX	1	2700UD	Reference, Precision Voltage, +10V	No
8503003YX	1	2701SD	Reference, Precision Voltage, -10V	No
8503004YX	1	2702SD	Reference, Precision Voltage, +/-10V	No
8503005YX	1	2702UD	Reference, Precision Voltage, +/-10V	No
8503006YX	1	2701UD	Reference, Precision Voltage, -10V	No

NUMBER OF SCD/SID DEVICES COVERED BY QUALIFICATION TESTING MIL-H-38534 COMPLIANT: 22

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MANUFACTURER	CAGE CODE	SYMBOL CODE
Hytek Microsystems Incorporated 400 Hot Springs Road Carson City, Nevada 89706	0ANM4	CEYO

QUALIFICATION LETTER(S)	PRODUCT CLASS DESIGNATOR	RADIATION HARDNESS LEVEL	TECHNOLOGY TYPES
EQ(EQC-91-859)	Class H	N/A	Active Delay Line

SUBSTRATE FABRICATION OPERATION (S) 1/

LOCATION: Carson City, NV FLOW: RN1005-002 CAPABILITY: thick film on alumina, 2 conductor levels, resistors	LOCATION: N/A FLOW: N/A CAPABILITY: N/A

ASSEMBLY OPERATION(S) 1/

LOCATION: Carson City, NV FLOW: RN1005-002 CAPABILITY: polymer conductive/nonconductive epoxy, solder; gold wire bonding	LOCATION: N/A FLOW: N/A CAPABILITY: N/A

ADD-ON ELEMENTS: unpackaged die, chip capacitors, inductors
SUBSTRATE ATTACH: polymer nonconductive epoxy

PACKAGE INFORMATION 1/ 2/ 3/

PACKAGE TYPE:	platform		
SEAL METHOD:	projection weld		
LEAD COUNT:	16		
SEAL PERIMETER:	2.94		
LEAD FINISH:	solder or gold		

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MANUFACTURER	CAGE CODE	SYMBOL CODE
Hytek Microsystems Incorporated 400 Hot Springs Road Carson City, Nevada 89706	0ANM4	CEYO

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The listing does not in anyway represent or imply interchangeability, equivalency.

SPECIFIC PRODUCT TYPES

STANDARDIZED MILITARY DRAWING (SMD)	ESDS CLASS	MANUFACTURER SIMILAR PART NUMBER 4/	PRODUCT TYPE/DESCRIPTION	SHIPPED
None	N/A	N/A	N/A	N/A

NUMBER OF SCD/SID DEVICES COVERED BY QUALIFICATION TESTING MIL-H-38534 COMPLIANT: 75

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MANUFACTURER	CAGE CODE	SYMBOL CODE
ILC Data Device Corporation 105 Wilbur Place Bohemia, New York 11716	19645	CEPB

QUALIFICATION LETTER(S)	QUALIFICATION LETTER(S)	RADIATION HARDNESS LEVEL	TECHNOLOGY TYPES
EQ(EQC-90-220) EQ(EQC-91-104) EQ(EQC-91-306) EQ(EQC-91-308) EQ(EQC-91-386) EQ(EQC-91-667)		N/A **PRODUCT CLASS DESIGNATOR** Class H	1553 Bus Data Converters

SUBSTRATE FABRICATION OPERATION (S) 1/

LOCATION: Bohemia, NY FLOW: 41637 CAPABILITY: thick film on alumina, 5 conductor levels, resistors	LOCATION: Bohemia, NY FLOW: 41638 CAPABILITY: thin film on alumina, 1 conductor level, resistors

ASSEMBLY OPERATION(S) 1/

LOCATION: Bohemia, NY FLOW: 36070, 36071 CAPABILITY: polymer conductive/nonconductive epoxy, solder; gold wire bonding	LOCATION: N/A FLOW: N/A CAPABILITY: N/A

ADD-ON ELEMENTS: unpackaged die, chip capacitors
SUBSTRATE ATTACH: polymer nonconductive epoxy, solder

PACKAGE INFORMATION 1/ 2/ 3/

PACKAGE TYPE:	metal,with axial leads	platform	metal, with peripheral leads	ceramic dual-in-line
SEAL METHOD:	seam weld	projection weld	seam weld	seam weld
LEAD COUNT:	94	32	82	24
SEAL PERIMETER:	10.26	5.38	7.58	4.09
LEAD FINISH:	gold	gold	gold	gold

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MANUFACTURER	CAGE CODE	SYMBOL CODE
ILC Data Device Corporation 30 Orville Drive Bohemia, New York 11716	19645	CEPB

QUALIFICATION LETTER(S)	PRODUCT CLASS DESIGNATOR	RADIATION HARDNESS LEVEL	TECHNOLOGY TYPES
EQ(EQC-90-657) EQ(EQC-91-606)	Class H	N/A	Data Converters Power

SUBSTRATE FABRICATION OPERATION (S) 1/

LOCATION: Bohemia, NY FLOW: 41639 CAPABILITY: thick film on alumina, 3 conductor levels, resistors; thick film on beryllia, 1 conductor level, resistor	LOCATION: Bohemia, NY FLOW: 41638 CAPABILITY: thin film on alumina, 1 conductor level, resistors

ASSEMBLY OPERATION(S) 1/

LOCATION: Bohemia, NY (Power Line) FLOW: 41634 CAPABILITY: polymer conductive epoxy; gold wire bonding	LOCATION: Bohemia, NY (Power Line) FLOW: 45552 CAPABILITY: polymer conductive/nonconductive epoxy and solder; gold and aluminum wire bonding

ADD-ON ELEMENTS: unpackaged die, chip capacitors, chip resistors, molytabs
SUBSTRATE ATTACH: polymer conductive/nonconductive epoxy, solder

PACKAGE INFORMATION 1/ 2/ 3/

PACKAGE TYPE:	metal,with axial leads	metal, with peripheral leads	
SEAL METHOD:	seam weld	seam weld	
LEAD COUNT:	24	16	
SEAL PERIMETER:	4.10	8.80	
LEAD FINISH:	gold	gold	

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MANUFACTURER	CAGE CODE	SYMBOL CODE
ILC Data Device Corporation 105 Wilbur Place Bohemia, New York 11716	19645	CEPB

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SPECIFIC PRODUCT TYPES

STANDARDIZED MILITARY DRAWING (SMD)	ESDS CLASS	MANUFACTURER SIMILAR PART NUMBER 4/	PRODUCT TYPE/DESCRIPTION	SHIPPED
5962-8604902ZX	1	BUS63105II	1553 Single Ch., Drvr./Rec., Low Power	Yes
5962-8604902TX	1	BUS63106II	1553 Single Ch., Drvr./Rec., Low Power	Yes
5962-8604902XC	1	BUS63105	1553 Single Ch., Drvr./Rec.	No
5962-8604905XX	1	BUS63100-617	1553 Single Ch., Drvr./Rec.	No
5962-8753501XA	1	BUS65112	1553 Remote Terminal Unit, Dual Redun.	Yes
5962-8753501YC	1	BUS65117	1553 Remote Terminal Unit, Dual Redun.	Yes
5962-8757902XX	1	BUS63125II	1553 Dual Ch.,Drvr./Rec.,Low Pwr.,-15V	Yes
5962-8757902YC	1	BUS63126II	1553 Dual Ch.,Drvr./Rec.,Low Pwr.,-15V	Yes
5962-8768701XC	1	HSDC8920A883B	R/S-to-digi. conv.,400Hz,+/-4.0 arcmin	Yes
5962-8768702XC	1	HSDC8920883B	R/S-to-digi. conv.,400Hz,+/-2.6 arcmin	No
5962-8768703XC	1	RDC14505-641	R/S to digi. conv.,400Hz,+/-2.6 arcmin	No
5962-8851702XX	1	DAC02310-113	D/A Conv., 14-bit, deglitched	Yes
5962-8851702YX	1	DAC02311-113	D/A Conv., 14-bit, deglitched	No
5962-8851701XX	1	DAC02310-112	D/A Conv., 14-bit, deglitched	Yes
5962-8851701YX	1	DAC02311-112	D/A Conv., 14-bit, deglitched	No
5962-8854201XX	1	ADC00300-112	D/A Conv., 12-bit track/hold	Yes
5962-8854201YX	1	ADC00302-112	D/A conv., 12-bit track/hold	No
5962-8858601XX	1	BUS66300II883B	1553 Bus to microprocssor interface unit	Yes
5962-8858601YC	1	BUS66301III883	1553 Bus to microprocssor interface unit	No
5962-8869201XX	1	BUS61553-883B	1553 Advcnd. Intgrtd. MUX, 8K x 16 RAM	Yes
5962-8869201YX	1	BUS61563-883B	1553 Advcnd. Intgrtd. MUX, 8k x 16 RAM	Yes

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MANUFACTURER	CAGE CODE	SYMBOL CODE
ILC Data Device Corporation 105 Wilbur Place Bohemia, New York 11716	19645	CEPB

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SPECIFIC PRODUCT TYPES

STANDARDIZED MILITARY DRAWING (SMD)	ESDS CLASS	MANUFACTURER SIMILAR PART NUMBER 4/	PRODUCT TYPE/DESCRIPTION	SHIPPED
5962-8869202XX	1	BUS61554-883B	1553 Advcnd. Intgrtd. MUX, 8K x 16 RAM	Yes
5962-8869202YC	1	BUS61564-883B	1553 Advcnd. Intgrtd. MUX, 8K x 16 RAM	Yes
5962-8869203XC	1	BUS61555-883B	1553 Advcnd. Intgrtd. MUX, 8K x 16 RAM	Yes
5962-8869203YC	1	BUS61565-883B	1553 Advcnd. Intgrtd. MUX, 8K x 16 RAM	Yes
5962-8869204XC	1	BUS61556-883B	1553 Advcnd. Intgrtd. MUX, 8K x 16 RAM	Yes
5962-8944704HXC	1	BUS63135II	Dual channel, driver-reciever, rec.idle	Yes
5962-8944704HYC	1	BUS63136II	Dual channel, driver-reciever, rec.idle	No
5962-8949801XX	1	SDC14561III114	90 V, 400Hz, S/D converter 2.0 minutes	No
5962-8949802XX	1	SDC14561III115	90 V, 400Hz, S/D converter, 1.0 minutes	No
5962-8949901XX	1	SDC14560III114	S/D Conv,11.8V,400Hz, 2.0 min. Arc.	No
5962-8949902XX	1	SDC14560III115	S/D Conv,11.8V,400Hz, 1.0 min. Arc.	No
5962-8949903XC	1	SDC14560III605	S/D Conv,11.8V,400Hz,Prog. Res.,2 Mn.Arc	Yes
5962-8979801XX	1	BUS-65142	Remote terminal unit, dual redundant	No
5962-8979801YX	1	BUS-65144	Remote terminal unit, dual redundant	No
5962-8979801XX	1	BUS-65143-883B	Remote terminal unit, dual redundant	No
5962-8979801XX	1	BUS-65145-883B	Remote terminal unit, dual redundant	No
5962-8982601XC	1	BUS63127II	Low power, dual channel, driver-reciever	Yes
5962-8982601YC	1	BUS63128II	Low power, dual channel, driver-reciever	Yes
5962-8990801XX	1	SDC14565III114	11.8V,400 Hz, R/D converter, 2 min Arc.	No
5962-8990802XX	1	SDC14565III115	11.8V,400 Hz, R/D converter, 1 min Arc.	No
5962-8990803XC	1	SDC14565III616	11.8V,400 Hz,80 Hz BW,R/D Conerter	Yes
5962-8990804XX	1	SDC14566III115	11.8V,400 Hz, trimmed velocity,R/D conv.	No
5962-8990805XC	1	SDC14565III618	7.0V,400 Hz, 80 Hz bandwidth, R/D conv.	No
5962-9055101XC	1	SDC14567III111	DR/D converter,400Hz,+/-6.0 min. acc.	Yes

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MANUFACTURER	CAGE CODE	SYMBOL CODE
ILC Data Device Corporation 105 Wilbur Place Bohemia, New York 11716	19645	CEPB

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The listing does not in anyway represent or imply interchangeablility, equivalency.

SPECIFIC PRODUCT TYPES

STANDARDIZED MILITARY DRAWING (SMD)	ESDS CLASS	MANUFACTURER SIMILAR PART NUMBER 4/	PRODUCT TYPE/DESCRIPTION	SHIPPED
5962-9055102XC	1	SDC14567III112	DR/D converter,400Hz,+/-4.0 min. acc.	Yes
5962-9055103XC	1	SDC14567III114	DR/D converter,400Hz,+/-2.0 min. acc.	Yes
5962-9055104XC	1	SDC14567III115	DR/D converter,400Hz,+/-1.0 min. acc.	Yes
5962-9055105XC	1	SDC14569III111	DR/D converter,trim.vel.,400Hz,+/-6.0acc	Yes
5962-9055106XC	1	SDC14569III112	DR/D converter,trim.vel.,400Hz,+/-4.0acc	No
5962-9055107XC	1	SDC14569III114	DR/D converter,trim.vel.,400Hz,+/-2.0acc	No
5962-9055108XC	1	SDC14569III115	DR/D converter,trim.vel.,400Hz,+/-1.0acc.	No
5962-9055401XC	1	HSDC8915A883B	R/D or S/D converter,+/-2.6 arcmin acc.	No
5962-9055402XC	1	HSDC8915883B	R/D or S/D converter,+/-4.0 arcmin acc.	No
5962-9063401HXX	1	ADH030-II12-1	D/A converter, 12-bit	No
5962-9070701HXC	1	SDC14500-635	S/D converter,400Hz,11.8v,acc.+/-2.6	No
5962-9070702HXC	1	SDC14500-636	S/D converter,400Hz,11.8v,acc.+/-4.0	Yes
5962-9070703HXC	1	SDC14502-605	S/D converter,400Hz,11.8v,acc.+/-2.6	No
5962-9070704HXC	1	SDC14502-606	S/D converter,400Hz,11.8v,acc.+/-4.0	Yes

NUMBER OF SCD/SID DEVICES COVERED BY QUALIFICATION TESTING MIL-H-38534 COMPLIANT: 44

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MANUFACTURER	CAGE CODE	SYMBOL CODE
Interpoint Corporation 10301 Willows Road Redmond, Washington 98052	50821	CEUU

QUALIFICATION LETTER(S)	PRODUCT CLASS DESIGNATOR	RADIATION HARDNESS LEVEL	TECHNOLOGY TYPES
EQ(EQM-87-2838) EQ(EQM-89-0439)	Class H	N/A	Linear amplifier Signal processor Data converters Analog, Digital

SUBSTRATE FABRICATION OPERATION (S) 1/

LOCATION: Redmond, WA FLOW: QA-039 CAPABILITY: thick film on alumina, 2 conductor levels, resistors	LOCATION: N/A FLOW: N/A CAPABILITY: N/A

ASSEMBLY OPERATION(S) 1/

LOCATION: Redmond, WA FLOW: QA-039 CAPABILITY: polymer conductive/nonconductive epoxy; gold wire bonding	LOCATION: N/A FLOW: N/A CAPABILITY: N/A

ADD-ON ELEMENTS: unpackaged die, chip capacitors
SUBSTRATE ATTACH: polymer nonconductive epoxy

PACKAGE INFORMATION 1/ 2/ 3/

PACKAGE TYPE:	metal,with axial leads		
SEAL METHOD:	seam weld		
LEAD COUNT:	38		
SEAL PERIMETER:	6.0		
LEAD FINISH:	gold		

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MANUFACTURER	CAGE CODE	SYMBOL CODE
Interpoint Corporation 10301 Willows Road Redmond, Washington 98052	50821	CEUU

PRODUCT ELIGIBILITY: The above manufacturer has certified that the following listing of hybrid microcircuits are built, tested, and shipped using the above certified FLOW/ QUALIFIED MATERIALS AND MANUFACTURING TECHNIQUES and are in **FULL COMPLIANCE** with **MIL-H-38534** and **MIL-STD-1772** requirements.
The listing does not in anyway represent or imply interchangeability, equivalency.

SPECIFIC PRODUCT TYPES

STANDARDIZED MILITARY DRAWING (SMD)	ESDS CLASS	MANUFACTURER SIMILAR PART NUMBER 4/	PRODUCT TYPE/DESCRIPTION	SHIPPED
None	N/A	N/A	N/A	N/A

NUMBER OF SCD/SID DEVICES COVERED BY QUALIFICATION TESTING MIL-H-38534 COMPLIANT: 0

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MANUFACTURER	CAGE CODE	SYMBOL CODE
ITT Avionics Division 100 Kingsland Road Clifton, New Jersey 07014	28527	CEWQ

QUALIFICATION LETTER(S)	PRODUCT CLASS DESIGNATOR	RADIATION HARDNESS LEVEL	TECHNOLOGY TYPES
EQ(EQM-88-1955) EQ(EQC-91-367) EQ(EQC-91-543) EQ(EQC-91-556) EQ(EQC-91-875) EQ(EQC-91-812)	Class H	N/A	Memory Custom

SUBSTRATE FABRICATION OPERATION (S) 1/

LOCATION: Clifton, NJ FLOW: TFH-102 CAPABILITY: thick film on alumina, 8 conductor levels, resistors	LOCATION: N/A FLOW: N/A CAPABILITY: N/A

ASSEMBLY OPERATION(S) 1/

LOCATION: Clifton, NJ FLOW: TFH-103 CAPABILITY: polymer conductive/nonconductive epoxy; gold wire bonding	LOCATION: N/A FLOW: N/A CAPABILITY: N/A

ADD-ON ELEMENTS: unpackaged die, chip capacitors, chip resistors, ceramic posts, tabs
SUBSTRATE ATTACH: polymer nonconductive/conductive epoxy

PACKAGE INFORMATION 1/ 2/ 3/

PACKAGE TYPE:	metal,with axial leads	metal, with peripheral leads	
SEAL METHOD:	seam weld	seam weld	
LEAD COUNT:	78	94	
SEAL PERIMETER:	7.94	9.16	
LEAD FINISH:	gold	gold	

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MANUFACTURER	CAGE CODE	SYMBOL CODE
ITT Avionics Division 100 Kingsland Road Clifton, New Jersey 07014	28527	CEWQ

PRODUCT ELIGIBILITY: The above manufacturer has certified that the following listing of hybrid microcircuits are built, tested, and shipped using the above certified FLOW/ QUALIFIED MATERIALS AND MANUFACTURING TECHNIQUES and are in **FULL COMPLIANCE** with **MIL-H-38534** and **MIL-STD-1772** requirements.
The listing does not in anyway represent or imply interchangeability, equivalency.

SPECIFIC PRODUCT TYPES

STANDARDIZED MILITARY DRAWING (SMD)	ESDS CLASS	MANUFACTURER SIMILAR PART NUMBER 4/	PRODUCT TYPE/DESCRIPTION	SHIPPED
None	N/A	N/A	N/A	N/A

NUMBER OF SCD/SID DEVICES COVERED BY QUALIFICATION TESTING MIL-H-38534 COMPLIANT: 0

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MANUFACTURER	CAGE CODE	SYMBOL CODE
M.S. Kennedy Corporation 8170 Thompson Road Clay, NY 13041	51651	CFAA

QUALIFICATION LETTER(S)	PRODUCT CLASS DESIGNATOR	RADIATION HARDNESS LEVEL	TECHNOLOGY TYPES
EQ(EQC-90-451) EQ(EQC-90-507)	Class H	N/A	High Power DC-Amplifier

SUBSTRATE FABRICATION OPERATION (S) 1/

LOCATION: Clay, NY FLOW: 2422-1563 CAPABILITY: thick film on alumina, 1 conductor level, resistors	LOCATION: Clay, NY FLOW: 2422-1563 CAPABILITY: thick film on beryllia, 2 conductor levels, resistors

ASSEMBLY OPERATION(S) 1/

LOCATION: Clay, NY FLOW: 2422-1518 CAPABILITY: polymer conductive/nonconductive epoxy, eutectic; gold wire bonding	LOCATION: N/A FLOW: N/A CAPABILITY: N/A

ADD-ON ELEMENTS: unpackaged die, chip capacitors, chip resistors
SUBSTRATE ATTACH: polymer conductive epoxy

PACKAGE INFORMATION 1/ 2/ 3/

PACKAGE TYPE:	TO can		
SEAL METHOD:	projection weld		
LEAD COUNT:	12		
SEAL PERIMETER:	3.14		
LEAD FINISH:	gold		

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MANUFACTURER	CAGE CODE	SYMBOL CODE
M.S. Kennedy Corporation 8170 Thompson Road Clay, NY 13041	51651	CFAA

PRODUCT ELIGIBILITY: The above manufacturer has certified that the following listing of hybrid microcircuits are built, tested, and shipped using the above certified FLOW/ QUALIFIED MATERIALS AND MANUFACTURING TECHNIQUES and are in **FULL COMPLIANCE** with **MIL-H-38534** and **MIL-STD-1772** requirements.
The listing does not in anyway represent or imply interchangeability, equivalency.

SPECIFIC PRODUCT TYPES

STANDARDIZED MILITARY DRAWING (SMD)	ESDS CLASS	MANUFACTURER SIMILAR PART NUMBER 4/	PRODUCT TYPE/DESCRIPTION	SHIPPED
None	N/A	N/A	N/A	N/A

NUMBER OF SCD/SID DEVICES COVERED BY QUALIFICATION TESTING MIL-H-38534 COMPLIANT: 0

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MANUFACTURER	CAGE CODE	SYMBOL CODE
Marconi Circuit Technology Corporation 160 Smith Street Farmingdale, NY 11735	32116	(TBD)

QUALIFICATION LETTER(S)	PRODUCT CLASS DESIGNATOR	RADIATION HARDNESS LEVEL	TECHNOLOGY TYPES
EQ(EQC-91-369)	Class H	N/A	Digital

SUBSTRATE FABRICATION OPERATION (S) 1/

LOCATION: Farmingdale, NY FLOW: 11-2915 CAPABILITY:thick film on alumina, 1 conductor level, resistors	LOCATION: N/A FLOW: N/A CAPABILITY: N/A

ASSEMBLY OPERATION(S) 1/

LOCATION: Farmingdale, NY FLOW: 11-2915 CAPABILITY: polymer conductive/nonconductive epoxy and eutectic, gold wire bonding **ADD-ON ELEMENTS:** unpackaged die, chip capacitors, tabs **SUBSTRATE ATTACH:** solder	LOCATION: N/A FLOW: N/A CAPABILITY: N/A

PACKAGE INFORMATION 1/ 2/ 3/

PACKAGE TYPE:	metal, with peripheral leads		
SEAL METHOD:	seam weld		
LEAD COUNT:	22		
SEAL PERIMETER:	2.05		
LEAD FINISH:	gold		

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MANUFACTURER	CAGE CODE	SYMBOL CODE
Marconi Circuit Technology Corporation 160 Smith Street Farmingdale NY 11735	32116	(TBD)

PRODUCT ELIGIBILITY: The above manufacturer has certified that the following listing of hybrid microcircuits are built, tested, and shipped using the above certified FLOW/ QUALIFIED MATERIALS AND MANUFACTURING TECHNIQUES and are in **FULL COMPLIANCE** with **MIL-H-38534** and **MIL-STD-1772** requirements.
The listing does not in anyway represent or imply interchangeability, equivalency.

SPECIFIC PRODUCT TYPES

STANDARDIZED MILITARY DRAWING (SMD)	ESDS CLASS	MANUFACTURER SIMILAR PART NUMBER 4/	PRODUCT TYPE/DESCRIPTION	SHIPPED
None	N/A	N/A	N/A	N/A

NUMBER OF SCD/SID DEVICES COVERED BY QUALIFICATION TESTING MIL-H-38534 COMPLIANT: 2

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MANUFACTURER	CAGE CODE	SYMBOL CODE
Martin Marietta Building E-8 12506 Lake Underhill Drive Orlando, FL 32862-8007	04939	(TBD)

QUALIFICATION LETTER(S)	PRODUCT CLASS DESIGNATOR	RADIATION HARDNESS LEVEL	TECHNOLOGY TYPES
EQ(EQC-91-402) EQ(EQC-91-764) EQ(EQC-92-112)	Class H	N/A	Analog

SUBSTRATE FABRICATION OPERATION (S) 1/

LOCATION: Orlando, FL FLOW: 72301772 CAPABILITY: thick film on alumina, 2 conductor level, resistors	LOCATION: N/A FLOW: N/A CAPABILITY: N/A

ASSEMBLY OPERATION(S) 1/

LOCATION: Orlando, FL FLOW: 72301772 CAPABILITY: polymer conductive/nonconductive epoxy; gold wire bonding	LOCATION: N/A FLOW: N/A CAPABILITY: N/A

ADD-ON ELEMENTS: unpackaged die, chip capacitors, chip resistors, inductors
SUBSTRATE ATTACH: polymer nonconductive epoxy

PACKAGE INFORMATION 1/ 2/ 3/

PACKAGE TYPE:	ceramic leadless chip carrier	metal, with axial leads	platform
SEAL METHOD:	solder	seam weld	projection weld
LEAD COUNT:	68	32	44
SEAL PERIMETER:	3.8	5.76	5.08
LEAD FINISH:	gold	gold	gold

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MANUFACTURER	CAGE CODE	SYMBOL CODE
Martin Marietta Building E-8 12505 Lake Underhill Drive Orlando, FL 32862-8007	04939	(TBD)

PRODUCT ELIGIBILITY: The above manufacturer has certified that the following listing of hybrid microcircuits are built, tested, and shipped using the above certified FLOW/ QUALIFIED MATERIALS AND MANUFACTURING TECHNIQUES and are in **FULL COMPLIANCE** with **MIL-H-38534** and **MIL-STD-1772** requirements.
The listing does not in anyway represent or imply interchangeability, equivalency.

SPECIFIC PRODUCT TYPES

STANDARDIZED MILITARY DRAWING (SMD)	ESDS CLASS	MANUFACTURER SIMILAR PART NUMBER 4/	PRODUCT TYPE/DESCRIPTION	SHIPPED
None	N/A	N/A	N/A	N/A

NUMBER OF SCD/SID DEVICES COVERED BY QUALIFICATION TESTING MIL-H-38534 COMPLIANT: 2

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MANUFACTURER	CAGE CODE	SYMBOL CODE
Micro-Rel Division Medtronic Incorporated 2343 West Tenth Place Tempe, Arizona 85281	8K957	CEUZ

QUALIFICATION LETTER(S)	PRODUCT CLASS DESIGNATOR	RADIATION HARDNESS LEVEL	TECHNOLOGY TYPES
EQ(EQC-91-417) EQ(EQC-91-727) EQ(EQC-92-136)	Class H	N/A	Linear 1553 bus

SUBSTRATE FABRICATION OPERATION (S) 1/

LOCATION: Tempe, AZ FLOW: 1403818 CAPABILITY: co-fire on alumina, 5 conductor levels	LOCATION: N/A FLOW: N/A CAPABILITY: N/A

ASSEMBLY OPERATION(S) 1/

LOCATION: Tempe, AZ FLOW: 1403818 CAPABILITY: polymer conductive/nonconductive epoxy; gold wire bonding	LOCATION: N/A FLOW: N/A CAPABILITY: N/A

ADD-ON ELEMENTS: unpackaged die, chip capacitors, chip resistors
SUBSTRATE ATTACH: solder

PACKAGE INFORMATION 1/ 2/ 3/

PACKAGE TYPE:	leadless chip carrier	metal, with axisle leads	ceramic co-fire, peripheral leads
SEAL METHOD:	solder	seam weld	seam weld
LEAD COUNT:	76	36	36
SEAL PERIMETER:	3.5	4.36	3.87
LEAD FINISH:	solder	gold & solder	gold & solder

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MANUFACTURER	CAGE CODE	SYMBOL CODE
Micro-Rel Division Medtronic Incorporated 2343 West Tenth Place Tempe, Arizona 85281	8K957	CEUZ

PRODUCT ELIGIBILITY: The above manufacturer has certified that the following listing of hybrid microcircuits are built, tested, and shipped using the above certified FLOW/ QUALIFIED MATERIALS AND MANUFACTURING TECHNIQUES and are in **FULL COMPLIANCE** with **MIL-H-38534** and **MIL-STD-1772** requirements.
The listing does not in anyway represent or imply interchangeability, equivalency.

SPECIFIC PRODUCT TYPES

STANDARDIZED MILITARY DRAWING (SMD)	ESDS CLASS	MANUFACTURER SIMILAR PART NUMBER 4/	PRODUCT TYPE/DESCRIPTION	SHIPPED
5962-8757908XC	1	MR63125MPR	low power, dual channel, driver-receiver	Yes

NUMBER OF SCD/SID DEVICES COVERED BY QUALIFICATION TESTING MIL-H-38534 COMPLIANT: 3

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MANUFACTURER	CAGE CODE	SYMBOL CODE
Micro System Engineering Incorporated 6024 Southwest Jean Road Lake Oswego, OR 97034	75800	CFAU

QUALIFICATION LETTER(S)	PRODUCT CLASS DESIGNATOR	RADIATION HARDNESS LEVEL	TECHNOLOGY TYPES
EQ(EQC-90-619) EQ(EQC-91-737)	Class H	N/A	Digital Power

SUBSTRATE FABRICATION OPERATION (S) 1/

LOCATION: Lake Oswego, OR FLOW: 3100002 CAPABILITY: thick film on alumina, 2 conductor levels, resistors	LOCATION: N/A FLOW: N/A CAPABILITY: N/A

ASSEMBLY OPERATION(S) 1/

LOCATION: Lake Oswego, OR FLOW: 3100001 CAPABILITY: polymer conductive/nonconductive epoxy, eutectic, solder; gold and aluminum wire bonding	LOCATION: N/A FLOW: N/A CAPABILITY: N/A

ADD-ON ELEMENTS: unpackaged die, chip capacitors, chip resistors
SUBSTRATE ATTACH: polymer nonconductive epoxy

PACKAGE INFORMATION 1/ 2/ 3/

PACKAGE TYPE:	metal, with axial leads	ceramic, dual-in-line	
SEAL METHOD:	seam weld	seam weld	
LEAD COUNT:	34	30	
SEAL PERIMETER:	5.0	5.0	
LEAD FINISH:	gold	gold	

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MANUFACTURER	CAGE CODE	SYMBOL CODE
Micro System Engineering Incorporated 6024 Southwest Jean Road Lake Oswego, OR 97034	75800	CFAU

PRODUCT ELIGIBILITY: The above manufacturer has certified that the following listing of hybrid microcircuits are built, tested, and shipped using the above certified FLOW/ QUALIFIED MATERIALS AND MANUFACTURING TECHNIQUES and are in **FULL COMPLIANCE** with **MIL-H-38534** and **MIL-STD-1772** requirements.
The listing does not in anyway represent or imply interchangeability, equivalency.

SPECIFIC PRODUCT TYPES

STANDARDIZED MILITARY DRAWING (SMD)	ESDS CLASS	MANUFACTURER SIMILAR PART NUMBER 4/	PRODUCT TYPE/DESCRIPTION	SHIPPED
None	N/A	N/A	N/A	N/A

NUMBER OF SCD/SID DEVICES COVERED BY QUALIFICATION TESTING MIL-H-38534 COMPLIANT: 0

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MANUFACTURER	CAGE CODE	SYMBOL CODE
Micro Networks Company 324 Clarke Street Worcester, Massachusetts 01606	50507	CEVQ

QUALIFICATION LETTER(S)	PRODUCT CLASS DESIGNATOR	RADIATION HARDNESS LEVEL	TECHNOLOGY TYPES
EQ(EQM-88-0709) EQ(EQC-91-235) EQ(EQC-91-894) EQ(EQC-92-062)	Class H	N/A	Data converters Track and Hold Amplifier

SUBSTRATE FABRICATION OPERATION (S) 1/

LOCATION: Worcester, MA FLOW: FC-23 CAPABILITY: thin film on alumina, 1 conductor level, resistors	LOCATION: N/A FLOW: N/A CAPABILITY: N/A

ASSEMBLY OPERATION(S) 1/

LOCATION: Worcester, MA FLOW: FC-25 CAPABILITY: polymer conductive/nonconductive epoxy, eutectic; gold wire bonding	LOCATION: N/A FLOW: N/A CAPABILITY: N/A

ADD-ON ELEMENTS: unpackaged die, chip capacitors, chip resistors
SUBSTRATE ATTACH: polymer nonconductive epoxy

PACKAGE INFORMATION 1/ 2/ 3/

PACKAGE TYPE:	ceramic dual-in-line	leadless chip carrier	
SEAL METHOD:	seam weld	solder	
LEAD COUNT:	62	22	
SEAL PERIMETER:	7.48	1.134	
LEAD FINISH:	gold	solder	

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MANUFACTURER	CAGE CODE	SYMBOL CODE
Micro Networks Company 324 Clarke Street Worcester, Massachusetts 01606	50507	CEVQ

PRODUCT ELIGIBILITY: The above manufacturer has certified that the following listing of hybrid microcircuits are built, tested, and shipped using the above certified FLOW/ QUALIFIED MATERIALS AND MANUFACTURING TECHNIQUES and are in **FULL COMPLIANCE** with **MIL-H-38534** and **MIL-STD-1772** requirements.
The listing does not in anyway represent or imply interchangeability, equivalency.

SPECIFIC PRODUCT TYPES

STANDARDIZED MILITARY DRAWING (SMD)	ESDS CLASS	MANUFACTURER SIMILAR PART NUMBER 4/	PRODUCT TYPE/DESCRIPTION	SHIPPED
5962-8768801XX	1	MN3008HF/B	D/A Conv., 8-bit, 0 to 4V output	Yes
5962-8768802XX	1	MN3009HF/B	D/A Conv., 8-bit, -2V to +2V Output	No
5962-8850802XX	1	MNADC87H/B	12-bit A/D converter, 8 micro sec.	No
5962-8956901HXX	1	MN5295H/B	A/D Conv., 16-bit	No
5962-8958301YX	1	MN5200H/B	A/D Conv., 12-bit, 0 to -10V, Int. Comp.	No
5962-8958302YX	1	MN5203H/B	A/D Conv., 12-bit, -5 to +5V, Int. Comp.	No
5962-8958303YX	1	MN5201H/B	A/D Conv., 12-bit, -10 to +10V, Int.Cmp.	No
5962-8958304YX	1	MN5204H/B	A/D Conv., 12-bit, 0 to -10V, Ext. Comp.	No
5962-8958305YX	1	MN5202H/B	A/D Conv., 12-bit, -5 to +5V, Ext. Comp.	No
5962-8958306YX	1	MN5205H/B	A/D Conv., 12-bit, -10 to +10V, Ext.Cmp.	No
5962-8958307YX	1	MN5206H/B	A/D Conv., 12-bit, 0 to +10V, Int. Comp.	No
5962-8958401YX	1	MN5210H/B	A/D Conv.,12-bit,0 to -10V,Int. Comp.,HS	No
5962-8958402YX	1	MN5213H/B	A/D Conv.,12-bit,-5 to +5V,Int. Comp.,HS	Yes
5962-8958403YX	1	MN5211H/B	A/D Conv.,12-bit,-10 to +10V,Int.Cmp.,HS	Yes
5962-8958404YX	1	MN5214H/B	A/D Conv.,12-bit,0 to -10V,Ext. Comp.,HS	No
5962-8958405YX	1	MN5212H/B	A/D Conv.,12-bit,-5 to +5V,Ext. Comp.,HS	No
5962-8958406YX	1	MN5215H/B	A/D Conv.,12-bit,-10 to +10V,Ext.Cmp.,HS	Yes
5962-8958407YX	1	MN5216H/B	A/D Conv.,12-bit,0 to +10V,Int. Comp.,HS	Yes
5962-8953102HYX	1	MN3292T/B-V	16-bit D/A converter; +10 V output	Yes
5962-8953103HYX	1	MN3290T/B-V	16-bit D/A converter; 0 to 10 V output	Yes
5962-8953104HYX	1	MN3291T/B-V	16-bit D/A converter; +5 V output	No

NUMBER OF SCD/SID DEVICES COVERED BY QUALIFICATION TESTING MIL-H-38534 COMPLIANT: 200

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MANUFACTURER	CAGE CODE	SYMBOL CODE
Micro Networks Company 324 Clarke Street Worcester, Massachusetts 01606	50507	CEVQ

PRODUCT ELIGIBILITY: The above manufacturer has certified that the following listing of hybrid microcircuits are built, tested, and shipped using the above certified FLOW/ QUALIFIED MATERIALS AND MANUFACTURING TECHNIQUES and are in **FULL COMPLIANCE** with **MIL-H-38534** and **MIL-STD-1772** requirements.
The listing does not in anyway represent or imply interchangeability, equivalency.

SPECIFIC PRODUCT TYPES

STANDARDIZED MILITARY DRAWING (SMD)	ESDS CLASS	MANUFACTURER SIMILAR PART NUMBER 4/	PRODUCT TYPE/DESCRIPTION	SHIPPED
5962-8959501XX	1	MN5245H/B	D/A Conv., 12-bit, 0 to+5V	Yes
5962-8959502XX	1	MN5245AH/B	A/D Conv., 12-bit,0to+5 V,3-State output	No
5962-8959503XX	1	MN5246H/B	A/D Conv., 12-bit, ± 2.5 V	Yes
5962-8959504XX	1	MN5246AH/B	A/D Conv., 12-bit, ±2.5V,3-State output	No
5962-8971801XX	1	MN3020H/B	A/D Conv., 8-bit,with input register	Yes
5962-9073001HXX	1	MN376H/B	High speed track and hold amplifier	Yes

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MANUFACTURER	CAGE CODE	SYMBOL CODE
Micropac Industries, Incorporated 905 East Walnut Street Garland, TX 75040	31757	CEJG

QUALIFICATION LETTER(S)	PRODUCT CLASS DESIGNATOR	RADIATION HARDNESS LEVEL	TECHNOLOGY TYPES
EQ(EQC-91-178) EQ(EQC-91-647)	Class H	N/A	Custom

SUBSTRATE FABRICATION OPERATION (S) 1/

LOCATION: Garland, TX (Hybrid Line) FLOW: 90138 CAPABILITY: thick film on alumina, 5 conductor level, resistors	LOCATION: N/A FLOW: N/A CAPABILITY: N/A

ASSEMBLY OPERATION(S) 1/

LOCATION: Garland, TX (Hybrid Line) FLOW: 90138 CAPABILITY: polymer conductive/nonconductive epoxy; gold wire bonding	LOCATION: N/A FLOW: N/A CAPABILITY: N/A

ADD-ON ELEMENTS: unpackaged die, chip capacitors, chip resistors
SUBSTRATE ATTACH: solder, polymer nonconductive epoxy

PACKAGE INFORMATION 1/ 2/ 3/

PACKAGE TYPE:	metal, with axial leads	metal, with peripheral leads	
SEAL METHOD:	seam weld	seam weld	
LEAD COUNT:	28	46	
SEAL PERIMETER:	5.0	5.0	
LEAD FINISH:	gold	gold	

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MANUFACTURER	CAGE CODE	SYMBOL CODE
Micropac Industries, Incorporated 912 East Walnut Street Garland, TX 75040	31757	CEJG

QUALIFICATION LETTER(S)	PRODUCT CLASS DESIGNATOR	RADIATION HARDNESS LEVEL	TECHNOLOGY TYPES
EQ(EQC-90-625) EQ(EQC-91-328) EQ(EQC-91-338)	Class H	N/A	Power

SUBSTRATE FABRICATION OPERATION (S) 1/

LOCATION: Garland, TX (Power Line) FLOW: 90138 CAPABILITY:thick film on alumina,1 conductor level, resistors; thick film on beryillia, 2 conductor level, resistors	LOCATION: N/A FLOW: N/A CAPABILITY: N/A

ASSEMBLY OPERATION(S) 1/

LOCATION: Garland, TX (Power Line) FLOW: 90138 CAPABILITY: polymer conductive epoxy and solder; gold and aluminum wire bonding	LOCATION: N/A FLOW: N/A CAPABILITY: N/A

ADD-ON ELEMENTS: unpackaged die, chip capacitors
SUBSTRATE ATTACH: polymer nonconductive epoxy, solder

PACKAGE INFORMATION 1/ 2/ 3/

PACKAGE TYPE:	TO can		
SEAL METHOD:	projection weld		
LEAD COUNT:	2		
SEAL PERIMETER:	2.27		
LEAD FINISH:	gold		

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MANUFACTURER	CAGE CODE	SYMBOL CODE
Micropac Industries, Incorporated 725 East Walnut Street Garland, TX 75040	31757	CEJG

QUALIFICATION LETTER(S)	PRODUCT CLASS DESIGNATOR	RADIATION HARDNESS LEVEL	TECHNOLOGY TYPES
EQ(EQC-90-624) EQ(EQC-91-188) EQ(EQC-91-466) EQ(EQC-92-120)	Class H	N/A	Optocoupler

SUBSTRATE FABRICATION OPERATION (S) 1/

LOCATION: Garland, TX (Optocoupler Line) FLOW: 90138 CAPABILITY: thick film on alumina, 2 conductor level, resistors	LOCATION: N/A FLOW: N/A CAPABILITY: N/A

ASSEMBLY OPERATION(S) 1/

LOCATION: Garland, TX (Optocoupler Line) FLOW: 90138 CAPABILITY: polymer conductive epoxy; gold wire bonding	LOCATION: N/A FLOW: N/A CAPABILITY: N/A

ADD-ON ELEMENTS: unpackaged die
SUBSTRATE ATTACH: polymer conductive/nonconductive epoxy

PACKAGE INFORMATION 1/ 2/ 3/

PACKAGE TYPE:	ceramic dual-in-line	leadless chip carrier	
SEAL METHOD:	solder	solder	
LEAD COUNT:	16	24	
SEAL PERIMETER:	1.89	1.60	
LEAD FINISH:	gold & solder	solder	

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MANUFACTURER	CAGE CODE	SYMBOL CODE
Micropac Industries, Incorporated 725, 905 & 925 East Walnut Street Garland, TX 75040	31757	CEJG

PRODUCT ELIGIBILITY: The above manufacturer has certified that the following listing of hybrid microcircuits are built, tested, and shipped using the above certified FLOW/ QUALIFIED MATERIALS AND MANUFACTURING TECHNIQUES and are in **FULL COMPLIANCE** with **MIL-H-38534** and **MIL-STD-1772** requirements.
The listing does not in anyway represent or imply interchangeability, equivalency.

SPECIFIC PRODUCT TYPES

STANDARDIZED MILITARY DRAWING (SMD)	ESDS CLASS	MANUFACTURER SIMILAR PART NUMBER 4/	PRODUCT TYPE/DESCRIPTION	SHIPPED
8102801EX	1	66013-001	Optocoupler, dual channel	Yes
8102801XX	1	66072-001/883	Optocoupler, dual channel	No
8102802PX	1	66056-103	Optocoupler, dual channel	No
81028032X	1	66123-001	Optocoupler, dual channel	No
8302401EX	1	6N140/883B	Four channel optical coupler	Yes
5962-9063801HXX	1	MIOP42114/883	Op amp, high power	No
5962-9065901HXX	1	MIOP42109/883	Op amp, power	Yes
5962-9072301HXX	1	MIOP42116/883	Op amp, high power	No
5962-9082801HXX	1	MIOP42115/883	Op amp, high power	No
5962-8762001XX	1	MIOP42106/883	Op amp, high power	Yes
5962-8767901EX	1	4N55/883B	Optocoupler, dual channel	Yes
5962-8767902PX	1	66126-103	Optocoupler, dual channel	No
5962-8978501PX	1	66058-003	Optocoupler, dual channel	No
5962-89785022X	1	66124-001	Optocoupler, dual channel	No
5962-9085401HPX	1	66126-105	Optocoupler, single channel	No

NUMBER OF SCD/SID DEVICES COVERED BY QUALIFICATION TESTING MIL-H-38534 COMPLIANT: 7

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MANUFACTURER	CAGE CODE	SYMBOL CODE
Natel Engineering Co., Inc. 4550 Runway Street Simi Valley, CA 93063-3493	09059	CFEN

QUALIFICATION LETTER(S)	PRODUCT CLASS DESIGNATOR	RADIATION HARDNESS LEVEL	TECHNOLOGY TYPES
EQ(EQC-91-714) EQ(EQC-92-048) EQ(EQC-92-039)	Class H	N/A	Synchro (Resolver) to Digital Converter

SUBSTRATE FABRICATION OPERATION (S) 1/

LOCATION: Simi Valley, CA FLOW: NHPS-01.001 CAPABILITY: Thick film on alumina, 3 conductor levels	LOCATION: N/A FLOW: N/A CAPABILITY: N/A

ASSEMBLY OPERATION(S) 1/

LOCATION: Simi Valley, CA FLOW: NHPS-01.001 CAPABILITY: polymer condutctive and nonconductive epoxy, gold wire bonding	LOCATION: N/A FLOW: N/A CAPABILITY: N/A

ADD-ON ELEMENTS: unpackaged die, chip capacitors, chip resistors, daughter board, ceramic post
SUBSTRATE ATTACH: polymer nonconductive epoxy

PACKAGE INFORMATION 1/ 2/ 3/

PACKAGE TYPE:	metal, with axial leads	metal, with peripheral leads	
SEAL METHOD:	seam weld	seam weld	
LEAD COUNT:	36	36	
SEAL PERIMTER:	5.76	9.16	
LEAD FINISH:	gold	gold	

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MANUFACTURER	CAGE CODE	SYMBOL CODE
Natel Engineering Co., Inc. 4550 Runway Street Simi Valley, CA 93063-3493	09059	CFEN

PRODUCT ELIGIBILITY: The above manufacturer has certified that the following listing of hybrid microcircuits are built, tested, and shipped using the above certified FLOW/ QUALIFIED MATERIALS AND MANUFACTURING TECHNIQUES and are in **FULL COMPLIANCE** with **MIL-H-38534** and **MIL-STD-1772** requirements.
The listing does not in anyway represent or imply interchangeability, equivalency.

SPECIFIC PRODUCT TYPES

STANDARDIZED MILITARY DRAWING (SMD)	ESDS CLASS	MANUFACTURER SIMILAR PART NUMBER 4/	PRODUCT TYPE/DESCRIPTION	SHIPPED
N/A	N/A	N/A	N/A	N/A

NUMBER OF SCD/SID DEVICES COVERED BY QUALIFICATION TESTING MIL-H-38534 COMPLIANT: 22

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MANUFACTURER	CAGE CODE	SYMBOL CODE
National Hybrid, Incorporated 2200 Smithtown Ave Ronkonkoma, NY 11779	57363	CFAQ

QUALIFICATION LETTER(S)	PRODUCT CLASS DESIGNATOR	RADIATION HARDNESS LEVEL	TECHNOLOGY TYPES
EQ(EQC-90-557) EQ(EQC-92-035)	Class H	N/A	Linear, Sample and Hold Data Converters, Data Bus Digitals, Custom, Amplifier

SUBSTRATE FABRICATION OPERATION (S) 1/

LOCATION: Ronkonkoma, NY FLOW: FL1772A7THK CAPABILITY: thick film on alumina, 3 gold conductive layers, resistors. thick film on beryllia, 1 gold conductive layer.	LOCATION: N/A FLOW: N/A CAPABILITY: N/A

ASSEMBLY OPERATION(S) 1/

LOCATION: Ronkonkoma, NY FLOW: FL883500834 CAPABILITY: polymer conductive epoxy, eutectic; gold wire bonding	LOCATION: N/A FLOW: N/A CAPABILITY: N/A

ADD-ON ELEMENTS: unpackaged die, chip resistors, chip capacitors, chip thermistors, daughterboards
SUBSTRATE ATTACH: polymer nonconductive epoxy

PACKAGE INFORMATION 1/ 2/ 3/

PACKAGE TYPE:	metal package, axial leads	metal package peripheral leads	
SEAL METHOD:	seam weld	seam weld	
LEAD COUNT:	66	36	
SEAL PERIMETER:	6.32	5.34	
LEAD FINISH:	gold	gold	

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MANUFACTURER	CAGE CODE	SYMBOL CODE
National Hybrid, Incorporated 2200 Smithtown Avenue Ronkonkoma, NY 11779	57363	CFAQ

PRODUCT ELIGIBILITY: The above manufacturer has certified that the following listing of hybrid microcircuits are built, tested, and shipped using the above certified FLOW/ QUALIFIED MATERIALS AND MANUFACTURING TECHNIQUES and are in **FULL COMPLIANCE** with **MIL-H-38534** and **MIL-STD-1772** requirements.
The listing does not in anyway represent or imply interchangeability, equivalency.

SPECIFIC PRODUCT TYPES

STANDARDIZED MILITARY DRAWING (SMD)	ESDS CLASS	MANUFACTURER SIMILAR PART NUMBER 4/	PRODUCT TYPE/DESCRIPTION	SHIPPED
5962-8604906YX	1	NHI-1509	Single channel digital driver-receiver	No
5962-8757905XX	1	NHI-1500	Low power, dual channel, driver-receiver	No
5962-8757905YX	1	NHI-1500FP	Low power, dual channel, driver-receiver	No
5962-8944702XX	1	NHI-1501	Dual channel, driver-receiver, rec	No
5962-8944702YX	1	NHI-1501FP	Dual channel driver-receiver, rec	No
5962-8952203XX	1	NHI-1529	Dual channel, five volt, transceiver	Yes
5962-8952203YX	1	NHI-1529FP	Dual channel, five volt, transceiver	Yes
5962-8982603XX	1	NHI-1502	Low power, dual channel, driver-receiver	No
5962-8982603YX	1	NHI-1502FP	Low power, dual channel, driver-receiver	No
5962-8982604XX	1	NHI-1523	Low power, dual channel, driver-receiver	No
5962-8982604YX	1	NHI-1523FP	Low power, dual channel, driver-receiver	No
5962-9082905YX	1	NHI-1531	Single channel, driver-receiver	No
5962-9082905TX	1	NHI-1531FP	Single channel, driver-receiver	No
5962-9082906YX	1	NHI-1545	Single channel, driver-receiver	No
5962-9082906TX	1	NHI-1545FP	Single channel, driver-receiver	No
5962-9168701HXX	1	NHI-1553RT	Bus, remote terminal	No
5962-9168701HYX	1	NHI-1553RTFP	Bus, remote terminal	No
5962-9168702HXX	1	NHI-1554RT	Bus, remote terminal	No
5962-9168702XYX	1	NHI-1554RTFP	Bus, remote treminal	No

NUMBER OF SCD/SID DEVICES COVERED BY QUALIFICATION TESTING MIL-H-38534 COMPLIANT: 2

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MANUFACTURER	CAGE CODE	SYMBOL CODE
National Semiconductor 5900 South Calle Santa Cruz Tucson, Arizona 85706	27014	CCXP

QUALIFICATION LETTER(S)	PRODUCT CLASS DESIGNATOR	RADIATION HARDNESS LEVEL	TECHNOLOGY TYPES
EQ(EQM-87-1840) EQ(EQC-90-0627)	Class H	N/A	Analog Converter Power Converter

SUBSTRATE FABRICATION OPERATION (S) 1/

LOCATION: Santa Clara, CA FLOW: 902471 CAPABILITY: thick film on alumina, 1 conductor level, resistors	LOCATION: N/A FLOW: N/A CAPABILITY: N/A

ASSEMBLY OPERATION(S) 1/

LOCATION: Tucson, AZ FLOW: (TU) AS-4000H CAPABILITY: eutectic; gold wire bonding	LOCATION: N/A FLOW: N/A CAPABILITY: N/A

ADD-ON ELEMENTS: unpackaged die, tab
SUBSTRATE ATTACH: solder

PACKAGE INFORMATION 1/ 2/ 3/

PACKAGE TYPE:	TO can		
SEAL METHOD:	projection weld		
LEAD COUNT:	8		
SEAL PERIMETER:	2.638		
LEAD FINISH:	solder		

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MANUFACTURER	CAGE CODE	SYMBOL CODE
National Semiconductor 5900 South Calle Santa Cruz Tucson, Arizona 85706	27014	CCXP

PRODUCT ELIGIBILITY: The above manufacturer has certified that the following listing of hybrid microcircuits are built, tested, and shipped using the above certified FLOW/ QUALIFIED MATERIALS AND MANUFACTURING TECHNIQUES and are in **FULL COMPLIANCE** with **MIL-H-38534** and **MIL-STD-1772** requirements.
The listing does not in anyway represent or imply interchangeability, equivalency.

SPECIFIC PRODUCT TYPES

STANDARDIZED MILITARY DRAWING (SMD)	ESDS CLASS	MANUFACTURER SIMILAR PART NUMBER 4/	PRODUCT TYPE/DESCRIPTION	SHIPPED
7801301XX	3	0002	Amplifier, current, thick film	Yes
8001301ZX	1	LH0032G	Op amp, thick film	Yes
8001401ZX	1	LH0033G	Hi Spd. Buffr. Amp., Vol. Fol., Fet in	Yes
8508701ZX	1	LH0041G/883	Hi Pwr. Op Amp, Ext. Comp., 0.2A Out.	Yes
8508801XX	1	LH0021	Hi Pwr. Op Amp, Ext. Comp.	Yes

NUMBER OF SCD/SID DEVICES COVERED BY QUALIFICATION TESTING MIL-H-38534 COMPLIANT: 1

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MANUFACTURER	CAGE CODE	SYMBOL CODE
Northern Telecon Hybrids South Denes Great Yarmouth Norfolk NR30 3PX England	5Y243	N/A

QUALIFICATION LETTER(S)	PRODUCT CLASS DESIGNATOR	RADIATION HARDNESS LEVEL	TECHNOLOGY TYPES
EQ(EQC-91-835) EQ(EQC-92-084)	Class H	N/A	MIL-STD-1553 Transceiver

SUBSTRATE FABRICATION OPERATION (S) 1/

LOCATION: Great Yarmouth, England FLOW: QCPM 458 CAPABILITY: Thick film on alumina, 2 conductor levels	LOCATION: N/A FLOW: N/A CAPABILITY: N/A

ASSEMBLY OPERATION(S) 1/

LOCATION: Great Yarmouth, England FLOW: QCPM 458 CAPABILITY: polymer conductive/nonconductive epoxy, gold wire bonding	LOCATION: N/A FLOW: N/A CAPABILITY: N/A

ADD-ON ELEMENTS: unpackaged die, chip capacitors
SUBSTRATE ATTACH: polymer nonconductive epoxy

PACKAGE INFORMATION 1/ 2/ 3/

PACKAGE TYPE:	Metal, with axial leads	Metal with peripheral leads	
SEAL METHOD:	Seam weld	Seam weld	
LEAD COUNT:	36	36	
SEAL PERIMTER:	5.3	5.3	
LEAD FINISH:	gold, solder	gold, solder	

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MANUFACTURER	CAGE CODE	SYMBOL CODE
Northern Telecon Hybrids South Denes Great Yarmouth Norfolk NR30 3PX England	5Y243	N/A

PRODUCT ELIGIBILITY: The above manufacturer has certified that the following listing of hybrid microcircuits are built, tested, and shipped using the above certified FLOW/ QUALIFIED MATERIALS AND MANUFACTURING TECHNIQUES and are in **FULL COMPLIANCE** with **MIL-H-38534** and **MIL-STD-1772** requirements.
The listing does not in anyway represent or imply interchangeability, equivalency.

SPECIFIC PRODUCT TYPES

STANDARDIZED MILITARY DRAWING (SMD)	ESDS CLASS	MANUFACTURER SIMILAR PART NUMBER 4/	PRODUCT TYPE/DESCRIPTION	SHIPPED
5962-8944703XX	1	FC1553622	1553 Dual Transceiver, 15V	No
5962-8944703YX	1	FC1553622FP	1553 Dual Transceiver, 15V	No
5962-8757906XX	1	FC1553623	1553 Dual Transceiver, 15V	No
5962-8757906YX	1	FC1553623FP	1553 Dual Transceiver, 15V	No
5962-8982605XX	1	FC1553721	1553 Dual Transceiver, 12V	No
5962-8982605YX	1	FC1553721FP	1553 Dual Transceiver, 12V	No
5962-8979901XX	1	FC155391	1553 Single Tranceiver, 5V	No
5962-8979901YX	1	FC155391FP	1553 Single Transceiver, 5V	No
5962-8979902XX	1	FC155392	1553 Single Transceiver, 5V	No
5962-8979902YX	1	FC155392FP	1553 Single Transceiver, 5V	No
5962-8952206XX	1	FC1553921	1553 Dual Transceiver, 5V	No
5962-8952206YX	1	FC1553921FP	1553 Dual Transceiver, 5V	No
5962-8952207XX	1	FC1553923	1553 Dual Transceiver, 5V	No
5962-8952207YX	1	FC1553923FP	1553 Dual Transceiver, 5V	No

NUMBER OF SCD/SID DEVICES COVERED BY QUALIFICATION TESTING MIL-H-38534 COMPLIANT: 11

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MANUFACTURER	CAGE CODE	SYMBOL CODE
Omnirel Corporation 205 Crawford Street Leominster, MA 01453	69210	CESN

QUALIFICATION LETTER(S)	PRODUCT CLASS DESIGNATOR	RADIATION HARDNESS LEVEL	TECHNOLOGY TYPES
EQ(EQC-91-408) EQ(EQC-91-807) EQ(EQC-91-838)	Class H	N/A	Voltage Regulator Power

SUBSTRATE FABRICATION OPERATION (S) 1/

LOCATION: Leominster, MA FLOW: D070002G CAPABILITY: thick film on alumina, 2 conductor levels, resistors;thick film on beryllia, 1 conductor level, resistor	LOCATION: N/A FLOW: N/A CAPABILITY: N/A

ASSEMBLY OPERATION(S) 1/

LOCATION: Leominster, MA FLOW: D050015G CAPABILITY: solder, polymer nonconductive/conductive epoxy; gold and aluminum wire bonding	LOCATION: N/A FLOW: N/A CAPABILITY: N/A

ADD-ON ELEMENTS: unpackaged die, tab, chip resistor, chip capacitor
SUBSTRATE ATTACH: solder

** Maximum constant acceleration level qualified 7500g, peripheral leaded package only.

PACKAGE INFORMATION 1/ 2/ 3/

PACKAGE TYPE:	metal, with peripheral leads	metal, with peripheral leads **	
SEAL METHOD:	seam weld	seam weld	
LEAD COUNT:	5	20	
SEAL PERIMTER:	2.47	8.8	
LEAD FINISH:	nickel/tin	gold	

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MANUFACTURER	CAGE CODE	SYMBOL CODE
Omnirel Corporation 205 Crawford Street Leominster, MA 01453	69210	CESN

PRODUCT ELIGIBILITY: The above manufacturer has certified that the following listing of hybrid microcircuits are built, tested, and shipped using the above certified FLOW/ QUALIFIED MATERIALS AND MANUFACTURING TECHNIQUES and are in **FULL COMPLIANCE** with **MIL-H-38534** and **MIL-STD-1772** requirements.
The listing does not in anyway represent or imply interchangeability, equivalency.

SPECIFIC PRODUCT TYPES

STANDARDIZED MILITARY DRAWING (SMD)	ESDS CLASS	MANUFACTURER SIMILAR PART NUMBER 4/	PRODUCT TYPE/DESCRIPTION	SHIPPED
5962-8949001XX	1	OM7509SC/883B	Linear, Dual, Pos. and Neg. Regulator	No

NUMBER OF SCD/SID DEVICES COVERED BY QUALIFICATION TESTING MIL-H-38534 COMPLIANT: 13

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MANUFACTURER	CAGE CODE	SYMBOL CODE
PCA/Slatersville Incorporated Hybrid Microelectronics 100 Providence Pike Slatersville, RI 02876	25403	(TBD)

QUALIFICATION LETTER(S)	PRODUCT CLASS DESIGNATOR	RADIATION HARDNESS LEVEL	TECHNOLOGY TYPES
EQ(EQC-91-0159)	Class H	N/A	Analog Digital Linear

SUBSTRATE FABRICATION OPERATION (S) 1/

LOCATION: Slatersville, RI FLOW: Form 145 CAPABILITY: thin film on alumina, 1 conductor level, resistor	LOCATION: N/A FLOW: N/A CAPABILITY: N/A

ASSEMBLY OPERATION(S) 1/

LOCATION: Slatersville, RI FLOW: Form 539 CAPABILITY: polymer conductive epoxy; gold wire bonding	LOCATION: N/A FLOW: N/A CAPABILITY: N/A

ADD-ON ELEMENTS: unpackaged die, chip capacitors
SUBSTRATE ATTACH: polymer nonconductive epoxy

PACKAGE INFORMATION 1/ 2/ 3/

PACKAGE TYPE:	metal, peripheral lead		
SEAL METHOD:	solder seam seal		
LEAD COUNT:	14		
SEAL PERIMETER:	1.52		
LEAD FINISH:	gold		

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MANUFACTURER	CAGE CODE	SYMBOL CODE
PCA/Slatersville, Incorporated Hybrid Microelectronics 100 Providence Pike Slatersville, RI 02876	25403	(TBD)

PRODUCT ELIGIBILITY: The above manufacturer has certified that the following listing of hybrid microcircuits are built, tested, and shipped using the above certified FLOW/ QUALIFIED MATERIALS AND MANUFACTURING TECHNIQUES and are in **FULL COMPLIANCE** with **MIL-H-38534** and **MIL-STD-1772** requirements.
The listing does not in anyway represent or imply interchangeability, equivalency.

SPECIFIC PRODUCT TYPES

STANDARDIZED MILITARY DRAWING (SMD)	ESDS CLASS	MANUFACTURER SIMILAR PART NUMBER 4/	PRODUCT TYPE/DESCRIPTION	SHIPPED
None	N/A	N/A	N/A	N/A

NUMBER OF SCD/SID DEVICES COVERED BY QUALIFICATION TESTING MIL-H-38534 COMPLIANT: 0

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MANUFACTURER	CAGE CODE	SYMBOL CODE
Raytheon Company Microwave and Power Tube Division Industrial Components Operation P. O. Box 5300 465 Centre Street Quincy, Massachusetts 02269	94144	CETX

QUALIFICATION LETTER(S)	PRODUCT CLASS DESIGNATOR	RADIATION HARDNESS LEVEL	TECHNOLOGY TYPES
EQ(EQM-87-1031) EQ(EQC-91-668) EQ(EQC-91-669)	Class H	N/A	Amplifier

SUBSTRATE FABRICATION OPERATION (S) 1/

LOCATION: Quincy, MA FLOW: 38756 CAPABILITY: thick film on alumina, 8 conductor level, resistors	LOCATION: N/A FLOW: N/A CAPABILITY: N/A

ASSEMBLY OPERATION(S) 1/

LOCATION: Quincy, MA FLOW: 38230, 42771 CAPABILITY: polymer conductive/nonconductive epoxy and eutectic; gold wire bonding	LOCATION: N/A FLOW: N/A CAPABILITY: N/A

ADD-ON ELEMENTS: unpackaged die, chip capacitors, chip resistors
SUBSTRATE ATTACH: polymer nonconductive epoxy, solder

PACKAGE INFORMATION 1/ 2/ 3/

PACKAGE TYPE:	metal,with axial leads	metal, with peripheral leads	
SEAL METHOD:	seam weld	seam weld	
LEAD COUNT:	13	76	
SEAL PERIMETER:	2.76	6.36	
LEAD FINISH:	gold	gold	

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MANUFACTURER	CAGE CODE	SYMBOL CODE
Raytheon Company Microwave and Power Tube Division Industrial Components Operation P. O. Box 5300 465 Centre Street Quincy, Massachusetts 02269	94144	CETX

PRODUCT ELIGIBILITY: The above manufacturer has certified that the following listing of hybrid microcircuits are built, tested, and shipped using the above certified FLOW/ QUALIFIED MATERIALS AND MANUFACTURING TECHNIQUES and are in **FULL COMPLIANCE** with **MIL-H-38534** and **MIL-STD-1772** requirements.
The listing does not in anyway represent or imply interchangeability, equivalency.

SPECIFIC PRODUCT TYPES

STANDARDIZED MILITARY DRAWING (SMD)	ESDS CLASS	MANUFACTURER SIMILAR PART NUMBER 4/	PRODUCT TYPE/DESCRIPTION	SHIPPED
None	N/A	N/A	N/A	N/A

NUMBER OF SCD/SID DEVICES COVERED BY QUALIFICATION TESTING MIL-H-38534 COMPLIANT: 4

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MANUFACTURER	CAGE CODE	SYMBOL CODE
SIPEX Corporation Hybrid Systems Division 22 Linnell Circle Billerica, MA 01821	33256	CFAC

QUALIFICATION LETTER(S)	PRODUCT CLASS DESIGNATOR	RADIATION HARDNESS LEVEL	TECHNOLOGY TYPES
EQ(EQC-90-506) EQ(EQC-91-781) EQ(EQC-91-813) EQ(EQC-92-052)	Class H	N/A	AD Converters Sample and Hold Amplifier

SUBSTRATE FABRICATION OPERATION (S) 1/

LOCATION: Billerica, MA FLOW: 239-0232 CAPABILITY: thin film on alumina, 1 gold conductor layer, resistors.	LOCATION: N/A FLOW: N/A CAPABILITY: N/A

ASSEMBLY OPERATION(S) 1/

LOCATION: Billerica, MA FLOW: 239-0458 CAPABILITY: polymer conductive epoxy; gold wire bonding	LOCATION: N/A FLOW: N/A CAPABILITY: N/A

ADD-ON ELEMENTS: unpackaged die, chip resistors, chip capacitor
SUBSTRATE ATTACH: polymer nonconductive epoxy

PACKAGE INFORMATION 1/ 2/ 3/

PACKAGE TYPE:	ceramic dual-in-line	metal, with axial leads	
SEAL METHOD:	seam weld	seam weld	
LEAD COUNT:	62	32	
SEAL PERIMETER:	7.476	5.78	
LEAD FINISH:	gold	gold	

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MANUFACTURER	CAGE CODE	SYMBOL CODE
SIPEX Corporation Hybrid Systems Division 22 Linnell Circle Billerica, MA 01821	33256	CFAC

PRODUCT ELIGIBILITY: The above manufacturer has certified that the following listing of hybrid microcircuits are built, tested, and shipped using the above certified FLOW/ QUALIFIED MATERIALS AND MANUFACTURING TECHNIQUES and are in **FULL COMPLIANCE** with **MIL-H-38534** and **MIL-STD-1772** requirements.
The listing does not in anyway represent or imply interchangeability, equivalency.

SPECIFIC PRODUCT TYPES

STANDARDIZED MILITARY DRAWING (SMD)	ESDS CLASS	MANUFACTURER SIMILAR PART NUMBER 4/	PRODUCT TYPE/DESCRIPTION	SHIPPED
5962-8877601XX	1	HS1068B	8-bit, flash, A/D converter	No
5962-8956601HCX	1	HS9716TB	16-bit sample and hold amplifier	No
5962-8997901XX	1	SP1078B	8-bit, flash, A/D converter	No
8503001CX	1	HS2700S	Precision +10.00 volt reference	Yes
8503002CX	1	HS2700U	Precision +10.00 volt reference	Yes
8503003CX	1	HS2702S	Precision ± 10.00 volt reference	Yes
8503004CX	1	HS2702U	Precision ± 10.00 volt reference	Yes
8503005CX	1	HS2701S	Precision - 10.00 volt reference	Yes
8503006CX	1	HS2701U	Precision - 10.00 volt reference	Yes
5962-8851401XX	1	HS9403B-8	12-bit data aquisition system	No
5962-8851402XX	1	HS9403B-16	12-bit data aquisition system	No
5962-8956501XX	1	HS3625B	12-bit data aquisition system	No
5962-8971801XX	1	HS3020B	8-bit D/A converter	No
5962-9079501HXX	1	HS9576S/B	16-bit A/D converter	No
5962-9079502HXX	1	HS9576T/B	16-bit A/D converter	No
5962-9063001HXX	1	SP9760B	16-bit track and hold ampifier	No

NUMBER OF SCD/SID DEVICES COVERED BY QUALIFICATION TESTING MIL-H-38534 COMPLIANT: 34

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MANUFACTURER	CAGE CODE	SYMBOL CODE
Teledyne Components 40 Allied Drive Dedham, Massachusetts 02026	29832	CETY

QUALIFICATION LETTER(S)	PRODUCT CLASS DESIGNATOR	RADIATION HARDNESS LEVEL	TECHNOLOGY TYPES
EQ(EQM-87-1114)	Class H	N/A	linear buffer amplifier

SUBSTRATE FABRICATION OPERATION (S) 1/

LOCATION: Dedham, MA FLOW: 80710825 CAPABILITY: thick film on alumina, 1 conductor levels, resistors	LOCATION: N/A FLOW: N/A CAPABILITY: N/A

ASSEMBLY OPERATION(S) 1/

LOCATION: Dedham, MA FLOW: 80320260 CAPABILITY: polymer conductive/nonconductive epoxy; gold wire bonding	LOCATION: N/A FLOW: N/A CAPABILITY: N/A

ADD-ON ELEMENTS: unpackaged die, chip resistors
SUBSTRATE ATTACH: polymer nonconductive epoxy

PACKAGE INFORMATION 1/ 2/ 3/

PACKAGE TYPE:	TO can		
SEAL METHOD:	projection weld		
LEAD COUNT:	12		
SEAL PERIMETER:	2.00		
LEAD FINISH:	gold		

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MANUFACTURER	CAGE CODE	SYMBOL CODE
Teledyne Components 40 Allied Drive Dedham, Massachusetts 02026	29832	CETY

PRODUCT ELIGIBILITY: The above manufacturer has certified that the following listing of hybrid microcircuits are built, tested, and shipped using the above certified FLOW/ QUALIFIED MATERIALS AND MANUFACTURING TECHNIQUES and are in **FULL COMPLIANCE** with **MIL-H-38534** and **MIL-STD-1772** requirements.
The listing does not in anyway represent or imply interchangeability, equivalency.

SPECIFIC PRODUCT TYPES

STANDARDIZED MILITARY DRAWING (SMD)	ESDS CLASS	MANUFACTURER SIMILAR PART NUMBER 4/	PRODUCT TYPE/DESCRIPTION	SHIPPED
8001401ZX	1	0033	Hi Speed Buffer Amp,Volt. Foll.,FET in	No

NUMBER OF SCD/SID DEVICES COVERED BY QUALIFICATION TESTING MIL-H-38534 COMPLIANT: 1

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MANUFACTURER	CAGE CODE	SYMBOL CODE
Teledyne Microelectronics 12964 Panama Street Los Angeles, California 90066	16170	CEOL

QUALIFICATION LETTER(S)	PRODUCT CLASS DESIGNATOR	RADIATION HARDNESS LEVEL	TECHNOLOGY TYPES
EQ(EQM-87-1898)	Class H	N/A	Data converters linear

SUBSTRATE FABRICATION OPERATION (S) 1/

LOCATION: Los Angeles, CA FLOW: 7700530 Exhibit 2.5 CAPABILITY: thick film on alumina, 7 conductor levels	LOCATION: Los Angeles, CA FLOW: 7700530 Exhibit 2.4 CAPABILITY: thin film on alumina, 2 conductor levels, resistors

ASSEMBLY OPERATION(S) 1/

LOCATION: Los Angeles, CA FLOW: 700530 Exhibit 2.6 CAPABILITY: polymer conductive epoxy, solder; gold and aluminum wire bonding	LOCATION: N/A FLOW: N/A CAPABILITY: N/A

ADD-ON ELEMENTS: unpackaged die, chip capacitors
SUBSTRATE ATTACH: solder

PACKAGE INFORMATION 1/ 2/ 3/

PACKAGE TYPE:	metal,with peripheral leads		
SEAL METHOD:	seam weld		
LEAD COUNT:	46		
SEAL PERIMETER:	5.00		
LEAD FINISH:	gold		

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MANUFACTURER	CAGE CODE	SYMBOL CODE
Teledyne Microelectronics 12964 Panama Street Los Angeles, California 90066	16170	CEOL

PRODUCT ELIGIBILITY: The above manufacturer has certified that the following listing of hybrid microcircuits are built, tested, and shipped using the above certified FLOW/ QUALIFIED MATERIALS AND MANUFACTURING TECHNIQUES and are in **FULL COMPLIANCE** with **MIL-H-38534** and **MIL-STD-1772** requirements.
The listing does not in anyway represent or imply interchangeability, equivalency.

SPECIFIC PRODUCT TYPES

STANDARDIZED MILITARY DRAWING (SMD)	ESDS CLASS	MANUFACTURER SIMILAR PART NUMBER 4/	PRODUCT TYPE/DESCRIPTION	SHIPPED
None	N/A	N/A	N/A	N/A

NUMBER OF SCD/SID DEVICES COVERED BY QUALIFICATION TESTING MIL-H-38534 COMPLIANT: 17

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MANUFACTURER	CAGE CODE	SYMBOL CODE
Texas Instruments Inc DSEG/MPS Hybrids P. O. Box 655012 Dallas, TX 75265	96214	CFCA

QUALIFICATION LETTER(S)	PRODUCT CLASS DESIGNATOR	RADIATION HARDNESS LEVEL	TECHNOLOGY TYPES
EQ(EQC-91-031)	Class H	N/A	linear

SUBSTRATE FABRICATION OPERATION (S) 1/

LOCATION: Dallas, Texas FLOW: AII-HYB-005 CAPABILITY: thick film on alumina, 5 conductor levels, resistors	LOCATION: N/A FLOW: N/A CAPABILITY: N/A

ASSEMBLY OPERATION(S) 1/

LOCATION: Dallas, Texas FLOW: AII-HYB-005 CAPABILITY: polymer conductive epoxy; gold wire bonding	LOCATION: N/A FLOW: N/A CAPABILITY: N/A

ADD-ON ELEMENTS: unpackaged die, chip capacitors
SUBSTRATE ATTACH: polymer nonconductive epoxy

PACKAGE INFORMATION 1/ 2/ 3/

PACKAGE TYPE:	metal,with axial leads		
SEAL METHOD:	seam weld		
LEAD COUNT:	64		
SEAL PERIMETER:	7.88		
LEAD FINISH:	gold		

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MANUFACTURER	CAGE CODE	SYMBOL CODE
Texas Instruments Inc DSEG/MPS Hybrids P. O. Box 655012 Dallas, TX 75265	96214	CFCA

PRODUCT ELIGIBILITY: The above manufacturer has certified that the following listing of hybrid microcircuits are built, tested, and shipped using the above certified FLOW/ QUALIFIED MATERIALS AND MANUFACTURING TECHNIQUES and are in **FULL COMPLIANCE** with **MIL-H-38534** and **MIL-STD-1772** requirements.
The listing does not in anyway represent or imply interchangeability, equivalency.

SPECIFIC PRODUCT TYPES

STANDARDIZED MILITARY DRAWING (SMD)	ESDS CLASS	MANUFACTURER SIMILAR PART NUMBER 4/	PRODUCT TYPE/DESCRIPTION	SHIPPED
None	N/A	N/A	N/A	N/A

NUMBER OF SCD/SID DEVICES COVERED BY QUALIFICATION TESTING MIL-H-38534 COMPLIANT: 0

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MANUFACTURER	CAGE CODE	SYMBOL CODE
Vitarel Microelectronics 6828 Nancy Ridge Drive San Diego, California 92121	66632	CEXE

QUALIFICATION LETTER(S)	PRODUCT CLASS DESIGNATOR	RADIATION HARDNESS LEVEL	TECHNOLOGY TYPES
EQ(EQC-89-0107)	Class H	N/A	op-amp analog digital

SUBSTRATE FABRICATION OPERATION (S) 1/

LOCATION: San Diego, CA FLOW: PF9001010 CAPABILITY: thick film on alumina, 1 conductor levels, resistors	LOCATION: N/A FLOW: N/A CAPABILITY: N/A

ASSEMBLY OPERATION(S) 1/

LOCATION: San Diego, CA FLOW: PF9001004, PF9001007, PF900103 CAPABILITY: polymer conductive epoxy; gold wire bonding	LOCATION: N/A FLOW: N/A CAPABILITY: N/A

ADD-ON ELEMENTS: unpackaged die
SUBSTRATE ATTACH: polymer nonconductive epoxy

PACKAGE INFORMATION 1/ 2/ 3/

PACKAGE TYPE:	metal, with axial leads		
SEAL METHOD:	seam weld		
LEAD COUNT:	8		
SEAL PERIMETER:	1.26		
LEAD FINISH:	gold		

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MANUFACTURER	CAGE CODE	SYMBOL CODE
Vitarel Microelectronics 6828 Nancy Ridge Drive San Diego, California 92121	66632	CEXE

PRODUCT ELIGIBILITY: The above manufacturer has certified that the following listing of hybrid microcircuits are built, tested, and shipped using the above certified FLOW/ QUALIFIED MATERIALS AND MANUFACTURING TECHNIQUES and are in **FULL COMPLIANCE** with **MIL-H-38534** and **MIL-STD-1772** requirements.
The listing does not in anyway represent or imply interchangeability, equivalency.

SPECIFIC PRODUCT TYPES

STANDARDIZED MILITARY DRAWING (SMD)	ESDS CLASS	MANUFACTURER SIMILAR PART NUMBER 4/	PRODUCT TYPE/DESCRIPTION	SHIPPED
None	N/A	N/A	N/A	N/A

NUMBER OF SCD/SID DEVICES COVERED BY QUALIFICATION TESTING MIL-H-38534 COMPLIANT: 0

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MANUFACTURER	CAGE CODE	SYMBOL CODE
Westinghouse Electric Corporation 7323 Aviation Boulevard Baltimore, MD 21203	97942	CFAR

QUALIFICATION LETTER(S)	PRODUCT CLASS DESIGNATOR	RADIATION HARDNESS LEVEL	TECHNOLOGY TYPES
EQ(EQC-90-567) EQ(EQC-91-629)	Class H	N/A	Custom Power Digital Analog

SUBSTRATE FABRICATION OPERATION (S) 1/

LOCATION: Baltimore, MD FLOW: 1L88-2461-1/MT CAPABILITY: thick film on alumina, 8 conductor levels	LOCATION: N/A FLOW: N/A CAPABILITY: N/A

ASSEMBLY OPERATION(S) 1/

LOCATION: Baltimore, MD FLOW: 1L88-2461-5/DM CAPABILITY: polymer conductive/nonconductive epoxy, eutectic; gold and aluminum wire bonding	LOCATION: N/A FLOW: N/A CAPABILITY: N/A

ADD-ON ELEMENTS: unpackaged die, chip capacitors, chip resistors, spacer post, tab
SUBSTRATE ATTACH: polymer nonconductive epoxy, solder

PACKAGE INFORMATION 1/ 2/ 3/

PACKAGE TYPE:	metal, with peripheral leads	power, metal, with peripheral leads	
SEAL METHOD:	seam weld	seam weld	
LEAD COUNT:	68	12	
SEAL PERIMETER:	5.92	6.0	
LEAD FINISH:	gold	gold	

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MANUFACTURER	CAGE CODE	SYMBOL CODE
Westinghouse Electric Corporation 7323 Aviation Boulevard Baltimore, MD 21203	97942	CFAR

PRODUCT ELIGIBILITY: The above manufacturer has certified that the following listing of hybrid microcircuits are built, tested, and shipped using the above certified FLOW/ QUALIFIED MATERIALS AND MANUFACTURING TECHNIQUES and are in **FULL COMPLIANCE** with **MIL-H-38534** and **MIL-STD-1772** requirements.
The listing does not in anyway represent or imply interchangeability, equivalency.

SPECIFIC PRODUCT TYPES

STANDARDIZED MILITARY DRAWING (SMD)	ESDS CLASS	MANUFACTURER SIMILAR PART NUMBER 4/	PRODUCT TYPE/DESCRIPTION	SHIPPED
None	N/A	N/A	N/A	N/A

NUMBER OF SCD/SID DEVICES COVERED BY QUALIFICATION TESTING MIL-H-38534 COMPLIANT: 3

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MANUFACTURER	CAGE CODE	SYMBOL CODE
White Technology 4246 East Wood Street Phoenix, Arizona 85040	54230	CEWR

QUALIFICATION LETTER(S)	PRODUCT CLASS DESIGNATOR	RADIATION HARDNESS LEVEL	TECHNOLOGY TYPES
EQ(EQC-92-070) EQ(EQC-92-138)	Class H	N/A	linear (oscillator) Digital memory

SUBSTRATE FABRICATION OPERATION (S) 1/

LOCATION: Phoenix, AZ FLOW: 106B00006 CAPABILITY: thick film on alumina, 1 conductor levels, resistors	LOCATION: N/A FLOW: N/A CAPABILITY: N/A

ASSEMBLY OPERATION(S) 1/

LOCATION: Phoenix, AZ FLOW: 106B00006 CAPABILITY: polymer conductive/nonconductive epoxy; gold wire bonding	LOCATION: N/A FLOW: N/A CAPABILITY: N/A

ADD-ON ELEMENTS: unpackaged die, chip resistors, chip capacitors
SUBSTRATE ATTACH: polymer nonconductive epoxy

PACKAGE INFORMATION 1/ 2/ 3/

PACKAGE TYPE:	platform	ceramic co-fire, side braze leads	
SEAL METHOD:	projection weld	seam weld	
LEAD COUNT:	16	32	
SEAL PERIMETER:	3.53	4.27 (dual cavity)	
LEAD FINISH:	gold	gold	

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MANUFACTURER	CAGE CODE	SYMBOL CODE
White Technology 4246 East Wood Street Phoenix, Arizona 85040	54230	CEWR

PRODUCT ELIGIBILITY: The above manufacturer has certified that the following listing of hybrid microcircuits are built, tested, and shipped using the above certified FLOW/ QUALIFIED MATERIALS AND MANUFACTURING TECHNIQUES and are in **FULL COMPLIANCE** with **MIL-H-38534** and **MIL-STD-1772** requirements.
The listing does not in anyway represent or imply interchangeability, equivalency.

SPECIFIC PRODUCT TYPES

STANDARDIZED MILITARY DRAWING (SMD)	ESDS CLASS	MANUFACTURER SIMILAR PART NUMBER 4/	PRODUCT TYPE/DESCRIPTION	SHIPPED
None	N/A	N/A	N/A	N/A

NUMBER OF SCD/SID DEVICES COVERED BY QUALIFICATION TESTING MIL-H-38534 COMPLIANT: 3

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APPROVED SOURCE
MASTER PRODUCT LISTING

TABLE I

PRODUCT ELIGIBILITY: The manufacturers listed below have certified that the following Hybrid Microcircuits are built, tested, and shipped using MIL-STD-1772 CERTIFIED FLOW/QUALIFIED MATERIALS and MANUFACTURING TECHNIQUES and are in **FULL COMPLIANCE** with **MIL-H-38534** and **MIL-STD-1772** requirements.

STANDARDIZED MILITARY DRAWING (SMD)	MANUFACTURER SIMILAR PART NUMBER 4/	PRODUCT TYPE/DESCRIPTION	SOURCE(S)
7801301GX	CTS0002	Amplifier, current, thick/thin film	CTS Corporation
7801301XX	CTS0002XB	Amplifier, current, thick/thin film	CTS Corporation
7801301XX	ELH0002H/883B	Amplifier, current, thick film	Elantec Incorporated
7801301XX	LH0002H/883B	Amplifier, current, thick film	National Semiconductor Corporation
8001301ZX	ADLH0032G/883B	Op amp, thick film	Analog Devices Computer Labs Div.
8001301ZX	ELH0032G/883E10003	Op amp, thick film	Elantec Incorporated
8001301ZX	LH0032G	Op amp, thick film	National Semiconductor Corporation
8001401ZX	ADLH0033G/883B	Hi Spd. Buffr. Amp., Vol. Fol., FET in	Analog Devices Computer Labs Div.
8001401ZX	ELH0033G/883B	Hi Spd. Buffr. Amp., Vol. Fol., FET in	Elantec Incorporated
8001401ZX	LH0033G	Hi Spd. Buffr. Amp., Vol. Fol., FET in	National Semiconductor Corporation
8001401ZX	TP0033-83	Hi Spd. Buffr. Amp., Vol. Fol., FET in	Teledyne Components
8102801EX	6N134/883B	Optocoupler, Dual Channel	Hewlett-Packard Company
8102801EX	6N134/883B	Optocoupler, Dual Channel	Micropac Industries Incorporated
8102801XX	66072-001/883	Optocoupler, Dual Channel	Micropac Industries Incorporated
8102802PX	HCPL-5631	Optocoupler, Dual Channel	Hewlett-Packard Company
8102802PX	66056-103	Optocoupler, Dual Channel	Micropac Industries Incorporated
81028032X	HCPL-6631	Optocoupler, Dual Channel	Hewlett-Packard Company
81028032X	66123-001	Optocoupler, Dual Channel	Micropac Industries Incorporated
8300201JX	DAC87CBI	D/A Conv., 12-bit, Programmable	Analog Devices MED
8300201XX	----------	D/A Conv., 12-bit, Programmable	NO APPROVED SOURCE
8302401EX	6N140A/883B	Optocoupler, Quad	Hewlett-Packard Company
8302401EX	6N140A/883B	Optocoupler, Quad	Micropac Industries Incorporated
85030013X	----------	Reference, Precision Voltage, +10V	NO APPROVED SOURCE
8503001CX	HS2700SD/883B	Reference, Precision Voltage, +10V	Sipex Corporation
8503001XX	----------	Reference, Precision Voltage, +10V	NO APPROVED SOURCE
8503001YX	2700SD/883B	Reference, Precision Voltage, +10V	Analog Devices MED
8503001YX	HC2700SD/883B	Reference, Precision Voltage, +10V	Hycomp Incorporated

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TABLE I

STANDARDIZED MILITARY DRAWING (SMD)	MANUFACTURER SIMILAR PART NUMBER 4/	PRODUCT TYPE/DESCRIPTION	SOURCE(S)
85030023X	----------	Reference, Precision Voltage, +10V	NO APPROVED SOURCE
8503002CX	HS2700UD/883B	Reference, Precision Voltage, +10V	Sipex Corporation
8503002XX	----------	Reference, Precision Voltage, +10V	NO APPROVED SOURCE
8503002YX	2700UD/883B	Reference, Precision Voltage, +10V	Analog Devices MED
8503002YX	HC2700UD/883B	Reference, Precision Voltage, +10V	Hycomp Incorporated
85030033X	----------	Reference, Precision Voltage, -10V	NO APPROVED SOURCE
8503003CX	HS2702SD/883B	Reference, Precision Voltage, -10V	Sipex Corporation
8503003XX	----------	Reference, Precision Voltage, -10V	NO APPROVED SOURCE
8503003YX	2702SD/883B	Reference, Precision Voltage, -10V	Analog Devices MED
8503003YX	HC2702SD/883B	Reference, Precision Voltage, -10V	Hycomp Incorporated
85030043X	----------	Reference, Precision Voltage, +/-10V	NO APPROVED SOURCE
8503004CX	HS2702UD/883B	Reference, Precision Voltage, +/-10V	Sipex Corporation
8503004XX	----------	Reference, Precision Voltage, +/-10V	NO APPROVED SOURCE
8503004YX	2702UD/883B	Reference, Precision Voltage, +/-10V	Analog Devices MED
8503004YX	HC2702UD/883B	Reference, Precision Voltage, +/-10V	Hycomp Incorporated
85030053X	----------	Reference, Precision Voltage, +/-10V	NO APPROVED SOURCE
8503005CX	HS2701SD/883B	Reference, Precision Voltage, +/-10V	Sipex Corporation
8503005YX	2701SD/883B	Reference, Precision Voltage, +/-10V	Analog Devices MED
8503005YX	HC2701SD/883B	Reference, Precision Voltage, +/-10V	Hycomp Incorporated
85030063X	----------	Reference, Precision Voltage, -10V	NO APPROVED SOURCE
8503006CX	HS2701UD/883B	Reference, Precision Voltage, -10V	Sipex Corporation
8503006YX	2701UD/883B	Reference, Precision Voltage, -10V	Analog Devices MED
8503006YX	HC2701UD/883B	Reference, Precision Voltage, -10V	Hycomp Incorporated
8508701ZX	ELH0041G/883B	Hi Pwr. Op Amp, Ext. Comp., 0.2A Out.	Elantec Incorporated
8508701ZX	LH0041G/883	Hi Pwr. Op Amp, Ext. Comp., 0.2A Out.	National Semiconductor Corporation
8508801YX	ELH0021K/E10036	Hi Pwr. Op Amp, Ext. Comp., 1.0A Out.	Elantec Incorporated
8508801YX	LH0021K	Hi Pwr. Op Amp, Ext. Comp., 1.0A Out.	National Semiconductor Corporation
8508901YX	ELH0101AK/E10039	Power Op amp., Wideband, Thick Film	Elantec Incorporated
8508902YX	ELH0101K/E10038	Power Op Amp., Wideband, Thick Film	Elantec Incorporated
5962-8604901XX	----------	1553 Single Ch. Drvr/Rec	NO APPROVED SOURCE
5962-8604902TX	BUS-83106II	1553 Single Ch. Drvr/Rec., Low Power	ILC Data Device Corporation
5962-8604902ZX	BUS-63105II	1553 Single Ch. Drvr/Rec., Low Power	ILC Data Device Corporation
5962-8604903YX	ARX2402	1553 Single Ch. Drvr/Rec.	Aeroflex Laboratories Incorporated
5962-8604904UX	ARX3402	1553 Single Ch. Drvr/Rec., Low Power	Aeroflex Laboratories Incorporated
5962-8604905XX	BUS63100-617	1553 Single Ch. Drvr/Rec.	ILC Data Device Corporation

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STANDARDIZED MILITARY DRAWING (SMD)	MANUFACTURER SIMILAR PART NUMBER 4/	PRODUCT TYPE/DESCRIPTION	SOURCE(S)
5962-8604905XX	----------	1553 Single Ch. Drvr/Rec.	NO APPROVED SOURCE
5962-8604906TX	----------	1553 Single Ch. Drvr/Rec.	NO APPROVED SOURCE
5962-8604906YX	NHI-1509	1553 Single Ch. Drvr/Rec.	National Hybrid Incorporated
5962-8604907XX	----------	1553 Single Ch. Drvr/Rec.	NO APPROVED SOURCE
5962-8753501XX	BUS-65112	1553 Remote Terminal Unit, Dual Red.	ILC Data Device Corporation
5962-8753501YX	BUS-65117	1553 Remote Terminal Unit, Dual Red.	ILC Data Device Corporation
5962-8753502XX	ARX2452	1553 Remote Terminal Unit, Dual Red.	Aeroflex Laboratories Incorporated
5962-8753502YX	ARX2452FP	1553 Remote Terminal Unit, Dual Red.	Aeroflex Laboratories Incorporated
5962-8757901XX	----------	1553 Dual Ch. Drvr/Rec., -15V	NO APPROVED SOURCE
5962-8757901YX	----------	1553 Dual Ch. Drvr/Rec., -15V	NO APPROVED SOURCE
5962-8757902XX	BUS-63125II	1553 Dual Ch. Drvr/Rec., Low Pwr -15V	ILC Data Device Corporation
5962-8757902YX	BUS-63126II	1553 Dual Ch. Drvr/Rec., Low Pwr -15V	ILC Data Device Corporation
5962-8757903XX	ARX2411	1553 Dual Ch. Drvr/Rec., -15V	Aeroflex Laboratories Incorporated
5962-8757903YX	ARX2411FP	1553 Dual Ch. Drvr/Rec., -15V	Aeroflex Laboratories Incorporated
5962-8757904XX	ARX3411	1553 Dual Ch. Drvr/Rec, Low Pwr -15V	Aeroflex Laboratories Incorporated
5962-8757904YX	ARX3411FP	1553 Dual Ch. Drvr/Rec, Low Pwr -15V	Aeroflex Laboratories Incorporated
5962-8757905XX	NHI-1500	1553 Dual Ch. Drvr/Rec, Low Pwr -15V	National Hybrid Incorporated
5962-8757905YX	NHI-1500FP	1553 Dual Ch. Drvr/Rec, Low Pwr -15V	National Hybrid Incorporated
5962-8757906XX	FC1553621	1553 Dual Ch. Drvr/Rec, Low Pwr -15V	Northern Telecon Hybrids
5962-8757906YX	FC1553621FP	1553 Dual Ch. Drvr/Rec, Low Pwr -15V	Northern Telecon Hybrids
5962-8757907XX	----------	1553 Dual Ch. Drvr/Rec, Low Pwr -15V	NO APPROVED SOURCE
5962-8757907YX	----------	1553 Dual Ch. Drvr/Rec, Low Pwr -15V	NO APPROVED SOURCE
5962-8757908XC	MR63125MPR	1553 Dual Ch. Drvr/Rec, Low Pwr -15V	Micro-Rel
5962-8757908YX	----------	1553 Dual Ch. Drvr/Rec, Low Pwr -15V	NO APPROVED SOURCE
5962-8761701XX	----------	Driver, High Voltage, 1.5 Amp.	NO APPROVED SOURCE
5962-8761702XX	----------	Driver, High Voltage, 3.0 Amp.	NO APPROVED SOURCE
5962-8762001XX	42106	Op Amp, High Power	Micropac Industries Incorporated
5962-8762002YX	PA51M/883	Op Amp, High Power	Apex Microtechnology Corporation
5962-8763201XX	----------	1553 Remote Term., Dual Red.,Low Pwr.	NO APPROVED SOURCE
5962-8767901EX	4N55/883B	Optocoupler, Dual Channel	Hewlett-Packard Company
5962-8767901EX	4N55/883B	Optocoupler, Dual Channel	Micropac Industries Incorporated
5962-8767902PX	HCPL-5531	Optocoupler, Dual Channel	Hewlett-Packard Company
5962-8767902PX	66126-103	Optocoupler, Dual Channel	Micropac Industries Incorporated
5962-87679032A	HCPL-6531	Optocoupler, Dual Channel	Hewlett-Packard Company
5962-8768701XX	HSDC-8920A-883B	R/S to Dig. Conv.,400Hz,+/-2.6 arcmin.	ILC Data Device Corporation

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5962-8768702XX	HSDC-8920-883B	R/S to Dig. Conv.,400Hz,+/-4.0 arcmin.	ILC Data Device Corporation
5962-8768703XX	RDC14505-641	R/S to Dig. Conv.,400Hz,+/-2.6 arcmin.	ILC Data Device Corporation
5962-8768801XX	MN3008H/B	D/A Conv., 8-bit, 0 to 4V Output	Micronetworks Incorporated
5962-8768801YX	----------	D/A Conv., 8-bit, 0 to 4V Output	NO APPROVED SOURCE
5962-8768802XX	MN3009H/B	D/A Conv., 8-bit, -2 to +2V Output	Micronetworks Incorporated
5962-8768802YX	----------	D/A Conv., 8-bit, -2 to +2V Output	NO APPROVED SOURCE
5962-8850801XX	ADC-HX/883B	A/D Conv., 12-bit, 20 microseconds	Datel Incorporated
5962-8850802XX	ADC-HZ/883B	A/D Conv., 12-bit, 8 microseconds	Datel Incorporated
5962-8850802XX	MNADC87H/B	A/D Conv., 12-bit, 8 microseconds	Micronetworks Incorporated
5962-8850901XX	AD390SD/883B	D/A Conv.,12-bit,bipolar,linear,quad	Analog Devices MED
5962-8850902XX	AD390TD/883B	D/A Conv.,12-bit,bipolar,linear,quad	Analog Devices MED
5962-8851001XX	AD394SD/883B	D/A Conv.,12-bit, quad, bipolar	Analog Devices MED
5962-8851002XX	AD394TD/883B	D/A Conv.,12-bit, quad, bipolar	Analog Devices MED
5962-8851003XX	AD395SD/883B	D/A Conv.,12-bit, quad	Analog Devices MED
5962-8851004XX	AD395TD/883B	D/A Conv.,12-bit, quad	Analog Devices MED
5962-8851401XX	HS9403B-8	12-bit data acq. sys., 8-ch. diff.inp.	Sipex Corporation
5962-8851402XX	HS9403B-16	12-bit data acq. sys., 16ch. sng-ended	Sipex Corporation
5962-8851402YX	----------	12-bit data acq. sys., 16ch. sng-ended	NO APPROVED SOURCE
5962-8851701XX	DAC-02310-112	D/A Conv., 14-bit, deglitched	ILC Data Device Corporation
5962-8851701YX	DAC-02311-112	D/A Conv., 14-bit, deglitched	ILC Data Device Corporation
5962-8851702XX	DAC-02310-113	D/A Conv., 14-bit, deglitched	ILC Data Device Corporation
5962-8851702YX	DAC-02311-113	D/A Conv., 14-bit, deglitched	ILC Data Device Corporation
5962-8854201XX	ADC00300-112	D/A Conv., 12-bit, track/hold	ILC Data Device Corporation
5962-8854201YX	ADC00302-112	D/A Conv., 12-bit, track/hold	ILC Data Device Corporation
5962-8857901XX	HOS-050A/883B	Video Op Amp, Fast Settling	Analog Devices Computer Labs Div.
5962-8857902XX	HOS-060SH/883B	Video Op Amp, Fast Settling	Analog Devices Computer Labs Div.
5962-8858501XX	----------	1553 Bus Controller, RTU & Monitor	NO APPROVED SOURCE
5962-8858501YX	----------	1553 Bus Controller, RTU & Monitor	NO APPROVED SOURCE
5962-8858601XX	BUS-66300 II-883B	1553 to Microprocessor Interface	ILC Data Device Corporation
5962-8858601YX	BUS-66301 II-883B	1553 to Microprocessor Interface	ILC Data Device Corporation
5962-8862901XX	----------	D/A Conv., 12-bit, Quad	NO APPROVED SOURCE
5962-8865801XX	AD578SD/883B	A/D Conv., 12-bit, High Speed	Analog Devices MED
5962-8865802XX	AD578TD/883B	A/D Conv., 12-bit, High Speed	Analog Devices MED
5962-8865803XX	AD578ZSD/883B	A/D Conv., 12-bit, High Speed	Analog Devices MED
5962-8865804XX	AD578ZTD/883B	A/D Conv., 12-bit, High Speed	Analog Devices MED

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5962-8869201XX	BUS61553-883B	1553, BC/RTU/MT, Multiplexed Terminal	ILC Data Device Corporation
5962-8869201YX	BUS61563-883B	1553, BC/RTU/MT, Multiplexed Terminal	ILC Data Device Corporation
5962-8869202XX	BUS61554-883B	1553, BC/RTU/MT, Multiplexed Terminal	ILC Data Device Corporation
5962-8869202YX	BUS61564-883B	1553, BC/RTU/MT, Multiplexed Terminal	ILC Data Device Corporation
5962-8869203XX	BUS61555-883B	1553, BC/RTU/MT, Multiplexed Terminal	ILC Data Device Corporation
5962-8869203YX	BUS61565-883B	1553, BC/RTU/MT, Multiplexed Terminal	ILC Data Device Corporation
5962-8869204XX	BUS61556-883B	1553, BC/RTU/MT, Multiplexed Terminal	ILC Data Device Corporation
5962-8870101XX	----------	Power Op Amp, High Current	NO APPROVED SOURCE
5962-8876801PX	HCPL-5201	Optocoupler, Single Channel, Hi Speed	Hewlett-Packard Company
5962-8876901PX	HCPL-5231	Optocoupler, Dual Channel, Hi Speed	Hewlett-Packard Company
5962-88769022X	HCPL-6231	Optocoupler, Dual Channel, High Speed	Hewlett-Packard Company
5962-8877601XX	HS1068B	A/D Conv., 8-bit, Flash	Sipex Corporation
5962-8944701HUX	ARX3436	1553 Dual Ch. Drvr/Rec, Idle High	Aeroflex Laboratories Incorporated
5962-8944701HXX	ARX3416	1553 Dual Ch. Drvr/Rec, Idle High	Aeroflex Laboratories Incorporated
5962-8944701HYX	ARX3416FP	1553 Dual Ch. Drvr/Rec, Idle High	Aeroflex Laboratories Incorporated
5962-8944701HZX	ARX3436FP	1553 Dual Ch. Drvr/Rec, Idle High	Aeroflex Laboratories Incorporated
5962-8944702HXX	NHI-1501	1553 Dual Ch. Drvr/Rec, Idle High	National Hybrid Incorporated
5962-8944702HYX	NHI-1501FP	1553 Dual Ch. Drvr/Rec, Idle High	National Hybrid Incorporated
5962-8944703HXX	FC1553622	1553 Dual Ch. Drvr/Rec, Idle High	Northern Telecon Hybrids
5962-8944703HYX	FC1553622FP	1553 Dual Ch. Drvr/Rec, Idle High	Northern Telecon Hybrids
5962-8944704HXX	BUS63135II	1553 Dual Ch. Drvr/Rec, Idle High	ILC Data Device Corporation
5962-8944704HYX	BUS63136II	1553 Dual Ch. Drvr/Rec, Idle High	ILC Data Device Corporation
5962-8947701PX	HCPL-5761	Optocoupler, AC/DC Logic Interface	Hewlett-Packard Company
5962-8949001XX	OM7509SC/883B	Voltage Regulator, Dual, +15 & -15V	Omnirel Corporation
5962-8949801XX	SDC14561III603	S/D Conv., 90V, 400Hz. 2 min. accuracy	ILC Data Device Corporation
5962-8949802XX	SDC14561III604	S/D Conv., 90V, 400Hz. 1 min. accuracy	ILC Data Device Corporation
5962-8949901XX	SDC14560III607	S/D Conv., 11.8V, 400Hz.,2 min. accrcy	ILC Data Device Corporation
5962-8949902XX	SDC14560III608	S/D Conv., 11.8V, 400Hz.,1 min. accrcy	ILC Data Device Corporation
5962-8949903XX	SDC14560-605	S/D Conv., 11.8V, 400Hz.,80 HzBW,2 min	ILC Data Device Corporation
5962-8949904XX	----------	S/D Conv., 11.8V, 400Hz.,2 min. accrcy	NO APPROVED SOURCE
5962-8949905XX	----------	S/D Conv., 11.8V, 400Hz.,1 min. accrcy	NO APPROVED SOURCE
5962-8949906XX	----------	S/D Conv., 11.8V, 400Hz.,80 HzBW,2 min	NO APPROVED SOURCE
5962-8950901XX	RGBDAC3808H/B	D/A Conv., Triple, 8-bit, Video RAM	Advanced Analog
5962-8952201XX	----------	1553 Transceiver, Dual Channel, 5V	NO APPROVED SOURCE
5962-8952202XX	ARX-2453	1553 Transceiver, Dual Channel, 5V	Aeroflex Laboratories Incorporated

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5962-8952202YX	ARX-2453FP	1553 Transceiver, Dual Channel, 5V	Aeroflex Laboratories Incorporated
5962-8952203XX	NHI-1529	1553 Transceiver, Dual Channel, 5V	National Hybrid Incorporated
5962-8952203YX	NHI-1529FP	1553 Transceiver, Dual Channel, 5V	National Hybrid Incorporated
5962-8952204XX	----------	1553 Transceiver, Dual Channel	NO APPROVED SOURCE
5962-8952205XX	----------	1553 Transceiver, Dual Channel	NO APPROVED SOURCE
5962-8952205YX	----------	1553 Transceiver, Dual Channel	NO APPROVED SOURCE
5962-8952206XX	FC1553921	1553 Transceiver, Dual Channel	Northern Telecon Hybrids
5962-8952206YX	FC1553921FP	1553 Transceiver, Dual Channel	Northern Telecon Hybrids
5962-8952207XX	FC1553923	1553 Transceiver, Dual Channel	Northern Telecon Hybrids
5962-8952207YX	FC1553923FP	1553 Transceiver, Dual Channel	Northern Telecon Hybrids
5962-8952801XX	DAC-HBK/883B	D/A Conv., 12-bit, binary input	Datel Incorporated
5962-8952802XX	DAC-HBK-2/883B	D/A Conv., 12-bit, two's complmnt.	Datel Incorporated
5962-8953101HXX	DAC-HPB/883B	D/A Conv., 16-bit,0 to 10V & +/-5V Out	Datel Incorporated
5962-8953102HXX	DAC-HPB-1/883B	D/A Conv., 16-bit, +/- 10V Output	Datel Incorporated
5962-8953102HYX	MN3292T/B-V	D/A Conv., 16-bit, +/- 10V Output	Micronetworks Incorporated
5962-8953103HYX	MN3290T/B-V	D/A Conv., 16-bit, 0 to +10V Output	Micronetworks Incorporated
5962-8953104HYX	MN3291T/B-V	D/A Conv., 16-bit, +/- 5V Output	Micronetworks Incorporated
5962-8956301HXX	----------	A/D Conv., 16-bit, shrt.cycle 14-bit	NO APPROVED SOURCE
5962-8956302HXX	----------	A/D Conv., 16-bit, shrt.cycle 13-bit	NO APPROVED SOURCE
5962-8956501XX	HS362SB	Sample/Hold Multiplexer, Dual 8-ch.	Sipex Corporation
5962-8956601HCX	HS9716TB	Sample/Hold Amp., 16-bit	Sipex Corporation
5962-8956901HXX	MN5295H/B	A/D Conv., 16-bit, High Speed	Micronetworks Incorporated
5962-8957001PX	HCPL-5401	Optocoupler, Single Ch., High Speed	Hewlett-Packard Company
5962-8957101PX	HCPL-5431	Optocoupler, Dual Ch., Hi Spd, Com Sup	Hewlett-Packard Company
5962-89571022X	HCPL-6431	Optocoupler, Dual Ch., Hi Spd, Sep Sup	Hewlett-Packard Company
5962-8957201EX	HCPL-1931	Optocoupler, Dual Ch., Line Receiver	Hewlett-Packard Company
5962-8958301YX	MN5200H/B	A/D Conv., 12-bit, 0 to -10V Int. Ref.	Micronetworks Incorporated
5962-8958302YX	MN5203H/B	A/D Conv., 12-bit, 0 to -10V Ext. Ref.	Micronetworks Incorporated
5962-8958303YX	MN5201H/B	A/D Conv., 12-bit, -5 to +5V Int. Ref.	Micronetworks Incorporated
5962-8958304YX	MN5204H/B	A/D Conv., 12-bit, -5 to +5V Ext. Ref.	Micronetworks Incorporated
5962-8958305YX	MN5202H/B	A/D Conv., 12-bit, -10to -10V Int.Ref.	Micronetworks Incorporated
5962-8958306YX	MN5205H/B	A/D Conv., 12-bit,-10 to -10V Ext.Ref.	Micronetworks Incorporated
5962-8958307YX	MN5206H/B	A/D Conv., 12-bit, 0 to 10V Int. Ref.	Micronetworks Incorporated
5962-8958401YX	MN5210H/B	ADC,Hi Sp, 12-bit, 0 to -10V Int. Ref.	Micronetworks Incorporated
5962-8958402YX	MN5213H/B	ADC,Hi Sp, 12-bit, 0 to -10V Ext. Ref.	Micronetworks Incorporated

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STANDARDIZED MILITARY DRAWING (SMD)	MANUFACTURER SIMILAR PART NUMBER 4/	PRODUCT TYPE/DESCRIPTION	SOURCE(S)
5962-8958403YX	MN5211H/B	ADC,Hi Spd, 12-bit, -5 to 5V Int. Ref.	Micronetworks Incorporated
5962-8958404YX	MN5214H/B	ADC, Hi Spd,12-bit,-5 to 5V Ext. Ref.	Micronetworks Incorporated
5962-8958405YX	MN5212H/B	ADC, Hi Spd,12-bit,-10 to 10V Int.Ref.	Micronetworks Incorporated
5962-8958406YX	MN5215H/B	ADC,Hi Spd, 12-bit,-10 to 10V Ext.Ref.	Micronetworks Incorporated
5962-8958407YX	MN5216H/B	ADC, Hi Spd,12-bit, 0 to 10V Int. Ref.	Micronetworks Incorporated
5962-8959201XX	ARX3407	1553 Driver/Rec., Single Ch., Low Pwr.	Aeroflex Laboratories Incorporated
5962-8959201YX	ARX3407FP	1553 Driver/Rec., Single Ch., Low Pwr.	Aeroflex Laboratories Incorporated
5962-8959202XX	ARX3404	Unvl Driver/Rec., Single Ch., Low Pwr.	Aeroflex Laboratories Incorporated
5962-8959202YX	ARX3404FP	Unvl Driver/Rec., Single Ch., Low Pwr.	Aeroflex Laboratories Incorporated
5962-8959203XX	ARX3407-001	1553 Driver/Rec., Single Ch., Low Pwr.	Aeroflex Laboratories Incorporated
5962-8959203YX	ARX3407-001FP	1553 Driver/Rec., Single Ch., Low Pwr.	Aeroflex Laboratories Incorporated
5962-8959204XX	ARX3404-001	Unvl Driver/Rec., Single Ch., Low Pwr.	Aeroflex Laboratories Incorporated
5962-8959204YX	ARX3404-001FP	Unvl Driver/Rec., Single Ch., Low Pwr.	Aeroflex Laboratories Incorporated
5962-8959205XX	ARX3467	1553 Driver/Rec., Single Ch., Low Pwr.	Aeroflex Laboratories Incorporated
5962-8959205YX	ARX3467FP	1553 Driver/Rec., Single Ch., Low Pwr.	Aeroflex Laboratories Incorporated
5962-8959206XX	ARX3464	1553 Driver/Rec., Single Ch., Low Pwr.	Aeroflex Laboratories Incorporated
5962-8959206YX	ARX3464FP	1553 Driver/Rec., Single Ch., Low Pwr.	Aeroflex Laboratories Incorporated
5962-8959401XX	CLC231A8C	Op Amp, Wideband, High Speed	Comlinear Corporation
5962-8959501XX	5245H/B	A/D Conv,12-bit, 0 to 5V	Micronetworks Incorporated
5962-8959501YX	----------	A/D Conv,12-bit, 0 to 5V	NO APPROVED SOURCE
5962-8959502XX	5245AH/B	A/D Conv,12-bit, 0 to 5V, 3-state inp.	Micronetworks Incorporated
5962-8959502YX	----------	A/D Conv,12-bit, 0 to 5V, 3-state inp.	NO APPROVED SOURCE
5962-8959503XX	5246H/B	A/D Conv,12-bit, +/-2.5V	Micronetworks Incorporated
5962-8959503YX	----------	A/D Conv,12-bit, +/-2.5V	NO APPROVED SOURCE
5962-8959504XX	5246AH/B	A/D Conv,12-bit, +/-2.5V, 3-state inp.	Micronetworks Incorporated
5962-8959504YX	----------	A/D Conv,12-bit, +/-2.5V, 3-state inp.	NO APPROVED SOURCE
5962-8965901XX	EL2004G/883B	Buffer Amp, FET in.	Elantec Incorporated
5962-8965901YX	----------	Buffer Amp, FET in.	NO APPROVED SOURCE
5962-8968301HXX	AHE2805S/CH	DC/DC Conv., 5V, 15W Out, Single Ch.	Advanced Analog
5962-8968301HZX	AHE2805SF/CH	DC/DC Conv., 5V, 15W Out, Single Ch.	Advanced Analog
5962-8968302HXX	AHE2805S/CH-SLV	DC/DC Conv., 5V, 15W Out, Single Ch.	Advanced Analog
5962-8968302HZX	AHE2805SF/CH-SLV	DC/DC Conv., 5V, 15W Out, Single Ch.	Advanced Analog
5962-8968303HXX	AHE2805S/CH-MSTR	DC/DC Conv., 5V, 15W Out, Single Ch.	Advanced Analog
5962-8968303HZX	AHE2805SF/CH-MSTR	DC/DC Conv., 5V, 15W Out, Single Ch.	Advanced Analog
5962-8971801XX	MN3020H/B	D/A Conv., 8-bit, w/ input register	Micronetworks Incorporated

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5962-8971801XX	HS3020B/B	D/A Conv., 8-bit, w/ input register	Sipex Corporation
5962-8978501PX	HCPL-5731	Optocoupler, Dual Ch., Common supplies	Hewlett-Packard Company
5962-8978501PX	66058-003	Optocoupler, Dual Ch., Common supplies	Micropac Industries Incorporated
5962-8978501PX	66058-003	Optocoupler, Dual Ch., Common supplies	Micropac Industries Incorporated
5962-89785022X	HCPL-6731	Optocoupler, Dual Ch., Separate spples	Hewlett-Packard Company
5962-89785022X	66124-001	Optocoupler, Dual Ch., Separate spples	Micropac Industries Incorporated
5962-89785022X	66124-001	Optocoupler, Dual Ch., Separate spples	Micropac Industries Incorporated
5962-8979801XX	BUS-65142	Remote terminal unit, dual redundant	ILC Data Device Corporation
5962-8979801YX	BUS-65144	Remote terminal unit, dual redundant	ILC Data Device Corporation
5962-8979802XX	BUS65143-883B	Remote terminal unit, dual redundant	ILC Data Device Corporation
5962-8979802YX	BUS65145-883B	Remote terminal unit, dual redundant	ILC Data Device Corporation
5962-8979901XX	FC155391	1553 Driver/Rec., Single Ch., Low Pwr.	Northern Telecon Hybrids
5962-8979901YX	FC155391FP	1553 Driver/Rec., Single Ch., Low Pwr.	Northern Telecon Hybrids
5962-8979902XX	FC155392	1553 Driver/Rec., Single Ch., Low Pwr.	Northern Telecon Hybrids
5962-8979902YX	FC155392FP	1553 Driver/Rec., Single Ch., Low Pwr.	Northern Telecon Hybrids
5962-8981001PX	HCPL-5701	Optocoupler, Sngl Ch., Low Cur.,Hi Gn.	Hewlett-Packard Company
5962-89813013X	----------	Op Amp, Wideband, Fast Settling	NO APPROVED SOURCE
5962-8981301GX	----------	Op Amp, Wideband, Fast Settling	NO APPROVED SOURCE
5962-8982601XX	BUS-63127II	1553 Driver/Receiver, Dual Channel	ILC Data Device Corporation
5962-8982601YX	BUS-63128II	1553 Driver/Receiver, Dual Channel	ILC Data Device Corporation
5962-8982602XX	ARX3419	1553 Driver/Receiver, Dual Channel	Aeroflex Laboratories Incorporated
5962-8982602YX	ARX3419FP	1553 Driver/Receiver, Dual Channel	Aeroflex Laboratories Incorporated
5962-8982603XX	NHI-1502	1553 Driver/Receiver, Dual Channel	National Hybrid Incorporated
5962-8982603YX	NHI-1502FP	1553 Driver/Receiver, Dual Channel	National Hybrid Incorporated
5962-8982604XX	NHI-1523	1553 Driver/Receiver, Dual Channel	National Hybrid Incorporated
5962-8982604YX	NHI-1523FP	1553 Driver/Receiver, Dual Channel	National Hybrid Incorporated
5962-8982605XX	FC1553721	1553 Driver/Receiver, Dual Channel	Northern Telecon Hybrids
5962-8982605YX	FC1553721FP	1553 Driver/Receiver, Dual Channel	Northern Telecon Hybrids
5962-8982606XX	----------	1553 Driver/Receiver, Dual Channel	NO APPROVED SOURCE
5962-8982606YX	----------	1553 Driver/Receiver, Dual Channel	NO APPROVED SOURCE
5962-8985801XX	CLC206A8C	Operational Amplifier, Wideband	Comlinear Corporation
5962-8990801XX	SDC14565III114	R/D Conv., 400Hz., 11.8V	ILC Data Device Corporation
5962-8990802XX	SDC14565III115	R/D Conv., 400Hz., 11.8V	ILC Data Device Corporation
5962-8990803XX	SDC14565III616	R/D Conv., 400Hz.,80Hz. BW, 11.8V	ILC Data Device Corporation
5962-8990804XX	SDC14566III115	R/D Conv.,400Hz,11.8V,trimmed velocity	ILC Data Device Corporation

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5962-8990805XX	SDC14565III618	Resolver to Digital Conv., 7.0 V	ILC Data Device Corporation
5962-8991001XX	CLC200A8C	Operational Amp, Wideband, High Speed	Comlinear Corporation
5962-8991101XX	CLC220A8C	Operational Amplifier, Wideband	Comlinear Corporation
5962-8997901XX	SP1078B	A/D Converter, 8-bit, flash	Sipex Corporation
5962-8998601HXX	DSC-11520-112	Digital to Synchro/Resolver Converter	ILC Data Device Corporation
5962-8998602HXX	DSC-11520-113	Digital to Synchro/Resolver Converter	ILC Data Device Corporation
5962-8998603HXX	DSC-11520-114	Digital to Synchro/Resolver Converter	ILC Data Device Corporation
5962-8998604HXX	DSC-11520-115	Digital to Synchro/Resolver Converter	ILC Data Device Corporation
5962-9055101XX	SDC14567III111	R/D Conv.,1.0V,400 Hz.,LSB Acc.:6 min.	ILC Data Device Corporation
5962-9055102XX	SDC14567III112	R/D Conv.,1.0V,400 Hz.,LSB Acc.:4 min.	ILC Data Device Corporation
5962-9055103XX	SDC14567III114	R/D Conv.,1.0V,400 Hz.,LSB Acc.:2 min.	ILC Data Device Corporation
5962-9055104XX	SDC14567III115	R/D Conv.,1.0V,400 Hz.,LSB Acc.:1 min.	ILC Data Device Corporation
5962-9055105XX	SDC14569III111	R/D Conv.,1.0V,400 Hz.,LSB Acc.:6 min.	ILC Data Device Corporation
5962-9055106XX	SDC14569III112	R/D Conv.,1.0V,400 Hz.,LSB Acc.:4 min.	ILC Data Device Corporation
5962-9055107XX	SDC14569III114	R/D Conv.,1.0V,400 Hz.,LSB Acc.:2 min.	ILC Data Device Corporation
5962-9055108XX	SDC14569III115	R/D Conv.,1.0V,400 Hz.,LSB Acc.:1 min.	ILC Data Device Corporation
5962-9055401XX	HSDC-8915A-883B	R/D or S/D Converter,+/-2.6 arcmin acc	ILC Data Device Corporation
5962-9055402XX	HSDC-8915-883B	R/D or S/D Converter,+/-4.0 arcmin acc	ILC Data Device Corporation
5962-9057001HXX	----------	D/A Converter, 12-bit, w/ input reg.	NO APPROVED SOURCE
5962-9063001HXX	SP9760B	Amplifier, Track and Hold, 16-bit	Sipex Corporation
5962-9063401HXX	ADH-030II-12-1	D/A Converter, 12-bit	ILC Data Device Corporation
5962-9063601HXX	----------	1553 Driver/Receiver, Dual Channel	NO APPROVED SOURCE
5962-9063601HYX	----------	1553 Driver/Receiver, Dual Channel	NO APPROVED SOURCE
5962-9063602HXX	----------	1553 Driver/Receiver, Dual Channel	NO APPROVED SOURCE
5962-9063602HYX	----------	1553 Driver/Receiver, Dual Channel	NO APPROVED SOURCE
5962-9063603HXX	ARX2410	1553 Driver/Receiver, Dual Channel	Aeroflex Laboratories Incorporated
5962-9063604HXX	ARX3410	1553 Driver/Receiver, Dual Channel	Aeroflex Laboratories Incorporated
5962-9063801HXX	PA07M/883	Operational Amplifier, High Power	Apex Microtechnology Corporation
5962-9063801HXX	MIOP42114/883	Operational Amplifier, High Power	Micropac Industries Incorporated
5962-9065901HXX	PA12M/883	Operational Amplifier, Power	Apex Microtechnology Corporation
5962-9065901HXX	MIOP42109/883	Operational Amplifier, Power	Micropac Industries Incorporated
5962-9067901HXX	PA02M/883	Operational Amplifier, Power	Apex Microtechnology Corporation
5962-9070701HXX	SDC14500-635	S/D Converter,400Hz,11.8V,acc.+/-2.6	ILC Data Device Corporation
5962-9070702HXX	SDC14500-636	S/D Converter,400Hz,11.8V,acc.+/-4.0	ILC Data Device Corporation
5962-9070703HXX	SDC14502-605	S/D Converter,60Hz,90V,acc.+/-2.6 arcm	ILC Data Device Corporation

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STANDARDIZED MILITARY DRAWING (SMD)	MANUFACTURER SIMILAR PART NUMBER 4/	PRODUCT TYPE/DESCRIPTION	SOURCE(S)
5962-9070704HXX	SDC14502-606	S/D Converter,60Hz,90V,acc.+/-4.0 arcm	ILC Data Device Corporation
5962-9070705HXX	HSD1024-C672H/2	S/D Converter,400Hz,11.8V,acc.+/-2.6	Natel Engineering Company, Inc.
5962-9070706HXX	HSD1024-C673H/2	S/D Converter,400Hz,11.8V,acc.+/-4.0	Natel Engineering Company, Inc.
5962-9070707HXX	HSD1024-C674H/2	S/D Converter,60Hz,90V,acc.+/-2.6 arcm	Natel Engineering Company, Inc.
5962-9070708HXX	HSD1024-C675H/2	S/D Converter,60Hz,90V,acc.+/-4.0 arcm	Natel Engineering Company, Inc.
5962-9072301HXX	PA08M/883	Power operational amplifier	Apex Microtechnology Corporation
5962-9072301HXX	MIOP42116/883	Operational Amplifier, High Power	Micropac Industries Incorporated
5962-9073001HXX	MN376H/B	Amplifier, Track & Hold, High Speed	Micronetworks Incorporated
5962-9073001HYX	HTC-0300AM/883B	Amplifier, Track & Hold, High Speed	Analog Devices Computer Labs Div.
5962-9073601HXX	PA84M/883	Power operational amplifier	Apex Microtechnology Corporation
5962-9079501HXX	HS9576S/B	A/D Converter, 16-bit, High Speed	Sipex Corporation
5962-9079502HXX	HS9576T/B	A/D Converter, 16-bit, High Speed	Sipex Corporation
5962-9082001HXX	----------	Synchro-Resolver to Digital Converter	NO APPROVED SOURCE
5962-9082002HXX	----------	Synchro-Resolver to Digital Converter	NO APPROVED SOURCE
5962-9082801HXX	PA10M/883	Operational Amplifier, High Power	Apex Microtechnology Corporation
5962-9082801HXX	MIOP42115/883	Operational Amplifier, High Power	Micropac Industries Incorporated
5962-9082901HXX	----------	1553 Driver/Receiver, Single Channel	NO APPROVED SOURCE
5962-9082902HXX	----------	1553 Driver/Receiver, Single Channel	NO APPROVED SOURCE
5962-9082903HUX	ARX3420	1553 Driver/Receiver, Single Channel	Aeroflex Laboratories Incorporated
5962-9082904HUX	ARX3424	1553 Driver/Receiver, Single Channel	Aeroflex Laboratories Incorporated
5962-9082905HTX	NHI-1531FP	1553 Driver/Receiver, Single Channel	National Hybrid Incorporated
5962-9082905HYX	NHI-1531	1553 Driver/Receiver, Single Channel	National Hybrid Incorporated
5962-9082906HTX	NHI-1545FP	1553 Driver/Receiver, Single Channel	National Hybrid Incorporated
5962-9082906HYX	NHI-1545	1553 Driver/Receiver, Single Channel	National Hybrid Incorporated
5962-9082907HTX	----------	1553 Driver/Receiver, Single Channel	NO APPROVED SOURCE
5962-9082907HXX	----------	1553 Driver/Receiver, Single Channel	NO APPROVED SOURCE
5962-9082907HYX	----------	1553 Driver/Receiver, Single Channel	NO APPROVED SOURCE
5962-9082908HXX	----------	1553 Driver/Receiver, Single Channel	NO APPROVED SOURCE
5962-9082908HYX	----------	1553 Driver/Receiver, Single Channel	NO APPROVED SOURCE
5962-9083301HXX	CLC201A8C	Operational Amplifier, Wideband	Comlinear Corporation
5962-9083501HXX	CLC205A8C	Op Amp, Wideband	Comlinear Corporation
5962-9083601HXX	CLC221A8C	Operational Amplifier, Wideband	Comlinear Corporation
5962-9085401HPX	HCPL-5501	Optocoupler, Single Ch., transistr out	Hewlett-Packard Company
5962-9085401HPX	66126-105	Optocoupler, Single Ch., transistr out	Micropac Industries Incorporated
5962-9097701HXX	CLC207A8C	Operational Amplifier, Wideband	Comlinear Corporation

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STANDARDIZED MILITARY DRAWING (SMD)	MANUFACTURER SIMILAR PART NUMBER 4/	PRODUCT TYPE/DESCRIPTION	SOURCE(S)
5962-9099501HXX	CLC925B8C	A/D Converter, 12-bit	Comlinear Corporation
5962-9157501HXX	AHE2815D/CH	DC/DC Converter, 15W, +/-15V dual out	Advanced Analog
5962-9157501HZX	AHE2815DF/CH	DC/DC Converter, 15W, +/-15V dual out	Advanced Analog
5962-9157502HXX	AHE2815D/CH-SLV	DC/DC Converter, 15W, +/-15V dual out	Advanced Analog
5962-9157502HZX	AHE2815DF/CH-SLV	DC/DC Converter, 15W, +/-15V dual out	Advanced Analog
5962-9157503HXX	AHE2815D/CH-MSTR	DC/DC Converter, 15W, +/-15V dual out	Advanced Analog
5962-9157503HZX	AHE2815DF/CH-MSTR	DC/DC Converter, 15W, +/-15V dual out	Advanced Analog
5962-9157901HZX	ATW280S/CH	DC/DC conv.,5V,30W out, single ch.	Advanced Analog
5962-9157902HZX	ATW280S/CH-SLV	DC/DC conv.,5V,30W out, single ch.	Advanced Analog
5962-9157903HZX	ATW280S/CHMSTR	DC/DC conv.,5V,30W out, single ch.	Advanced Analog
5962-9158001HXX	AHE2812S/CH	DC/DC Converter, Single Ch., 12V, 20W	Advanced Analog
5962-9158001HZX	AHE2812SF/CH	DC/DC Converter, Single Ch., 12V, 20W	Advanced Analog
5962-9158002HXX	AHE2812S/CH-SLV	DC/DC Converter, Single Ch., 12V, 20W	Advanced Analog
5962-9158002HZX	AHE2812SF/CH-SLV	DC/DC Converter, Single Ch., 12V, 20W	Advanced Analog
5962-9158003HXX	AHE2812S/CH-MSTR	DC/DC Converter, Single Ch., 12V, 20W	Advanced Analog
5962-9158003HZX	AHE2812SF/CH-MSTR	DC/DC Converter, Single Ch., 12V, 20W	Advanced Analog
5962-9162101HXX	PA83M/883	Operational Amplifier, Power	Apex Microtechnology Corporation
5962-9162501HXX	AHE2815S/CH	DC/DC Converter, Single Ch., 15V, 20W	Advanced Analog
5962-9162501HZX	AHE2815SF/CH	DC/DC Converter, Single Ch., 15V, 20W	Advanced Analog
5962-9162502HXX	AHE2815S/CH-SLV	DC/DC Converter, Single Ch., 15V, 20W	Advanced Analog
5962-9162502HZX	AHE2815SF/CH-SLV	DC/DC Converter, Single Ch., 15V, 20W	Advanced Analog
5962-9162503HXX	AHE2815S/CH-MSTR	DC/DC Converter, Single Ch., 15V, 20W	Advanced Analog
5962-9162503HZX	AHE2815SF/CH-MSTR	DC/DC Converter, Single Ch., 15V, 20W	Advanced Analog
5962-9166501HXX	CLC232A8C	Operational Amplifier, Wideband	Comlinear Corporation
5962-9168701HXX	NHI-1553RT	1553 Mux/Bus Remote Trmnl, +5V RAM Sup	National Hybrid Incorporated
5962-9168701HYX	NHI-1553RTFP	1553 Mux/Bus Remote Trmnl, +5V RAM Sup	National Hybrid Incorporated
5962-9168702HXX	NHI-1554RT	1553 Mux/Bus Remote Trmnl Unit, SSF-TF	National Hybrid Incorporated
5962-9168702HYX	NHI-1554RTFP	1553 Mux/Bus Remote Trmnl Unit, SSF-TF	National Hybrid Incorporated
5962-9170001HXX	PA09M/883	Operational amplifier, High power	Apex Microtechnology Corporation
5962-9170001HXX	MIOP42119/883	Operational amplifier, High power	Micropac Industries Incorporated
5962-9204001HXX	AHE2812D/CH	DC/DC Converter, 15W, +/-12V dual out	Advanced Analog
5962-9204001HZX	AHE2812DF/CH	DC/DC Converter, 15W, +/-12V dual out	Advanced Analog
5962-9204002HXX	AHE2812D/CH-SLV	DC/DC Converter, 15W, +/-12V dual out	Advanced Analog

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STANDARDIZED MILITARY DRAWING (SMD)	MANUFACTURER SIMILAR PART NUMBER 4/	PRODUCT TYPE/DESCRIPTION	SOURCE(S)
5962-9204002HZX	AHE2812DF/CH-SLV	DC/DC Converter, 15W, +/-12V dual out	Advanced Analog
5962-9204003HXX	AHE2812D/CH-MSTR	DC/DC Converter, 15W, +/-12V dual out	Advanced Analog
5962-9204003HYX	AHE2812DF/CH-MSTR	DC/DC Converter, 15W, +/-12V dual out	Advanced Analog
5915-9102001HXX	AFC-461	Filter, EMI, 4.0A	Advanced Analog
5915-9102001HZX	AFC-461F	Filter, EMI, 4.0A	Advanced Analog

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PRODUCT ELIGIBILITY: The manufacturers listed below have certified that the following Hybrid Microcircuits are built, tested, and shipped using MIL-STD-1772 CERTIFIED FLOW/QUALIFIED MATERIALS and MANUFACTURING TECHNIQUES and are in **FULL COMPLIANCE** with **MIL-H-38534** and **MIL-STD-1772** requirements.

PRODUCT TYPE/DESCRIPTION	STANDARDIZED MILITARY DRAWING (SMD)	MANUFACTURER SIMILAR PART NUMBER 4/	SOURCE(S)
1553 BUS CONTROL			
1553 Bus Controller, RTU & Monitor	5962-8858501XX	----------	NO APPROVED SOURCE
1553 Bus Controller, RTU & Monitor	5962-8858501YX	----------	NO APPROVED SOURCE
1553 BUS/MICROPROCESSOR INTERFACE			
1553 to Microprocessor Interface	5962-8858601XX	BUS-66300 II-883B	ILC Data Device Corporation
1553 to Microprocessor Interface	5962-8858601YX	BUS-66301 II-883B	ILC Data Device Corporation
1553 SINGLE CHANNEL DRIVER/RECEIVER			
1553 Single Ch. Drvr/Rec.	5962-8604901XX	----------	NO APPROVED SOURCE
1553 Single Ch. Drvr/Rec., Low Power	5962-8604902TX	BUS-83106II	ILC Data Device Corporation
1553 Single Ch. Drvr/Rec., Low Power	5962-8604902ZX	BUS-63105II	ILC Data Device Corporation
1553 Single Ch. Drvr/Rec.	5962-8604903YX	ARX2402	Aeroflex Laboratories Incorporated
1553 Single Ch. Drvr/Rec., Low Power	5962-8604904UX	ARX3402	Aeroflex Laboratories Incorporated
1553 Single Ch. Drvr/Rec.	5962-8604905XX	BUS63100-617	ILC Data Device Corporation
1553 Single Ch. Drvr/Rec.	5962-8604905XX	----------	NO APPROVED SOURCE
1553 Single Ch. Drvr/Rec.	5962-8604906TX	----------	NO APPROVED SOURCE
1553 Single Ch. Drvr/Rec.	5962-8604906YX	NHI-1509	National Hybrid Incorporated
1553 Single Ch. Drvr/Rec.	5962-8604907XX	----------	NO APPROVED SOURCE
1553 Driver/Rec., Single Ch., Low Pwr.	5962-8959201XX	ARX3407	Aeroflex Laboratories Incorporated
1553 Driver/Rec., Single Ch., Low Pwr.	5962-8959201YX	ARX3407FP	Aeroflex Laboratories Incorporated
1553 Driver/Rec., Single Ch., Low Pwr.	5962-8959203XX	ARX3407-001	Aeroflex Laboratories Incorporated
1553 Driver/Rec., Single Ch., Low Pwr.	5962-8959203YX	ARX3407-001FP	Aeroflex Laboratories Incorporated
1553 Driver/Rec., Single Ch., Low Pwr.	5962-8959205XX	ARX3467	Aeroflex Laboratories Incorporated

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PRODUCT TYPE/DESCRIPTION	STANDARDIZED MILITARY DRAWING (SMD)	MANUFACTURER SIMILAR PART NUMBER 4/	SOURCE(S)
1553 SINGLE CHANNEL DRIVER/RECEIVER			
1553 Driver/Rec., Single Ch., Low Pwr.	5962-8959205YX	ARX3467FP	Aeroflex Laboratories Incorporated
1553 Driver/Rec., Single Ch., Low Pwr.	5962-8959206XX	ARX3464	Aeroflex Laboratories Incorporated
1553 Driver/Rec., Single Ch., Low Pwr.	5962-8959206YX	ARX3464FP	Aeroflex Laboratories Incorporated
1553 Driver/Rec., Single Ch., Low Pwr.	5962-8979901XX	FC155391	Northern Telecon Hybrids
1553 Driver/Rec., Single Ch., Low Pwr.	5962-8979901YX	FC155391FP	Northern Telecon Hybrids
1553 Driver/Rec., Single Ch., Low Pwr.	5962-8979902XX	FC155392	Northern Telecon Hybrids
1553 Driver/Rec., Single Ch., Low Pwr.	5962-8979902YX	FC155392FP	Northern Telecon Hybrids
1553 Driver/Receiver, Single Channel	5962-9082901HXX	----------	NO APPROVED SOURCE
1553 Driver/Receiver, Single Channel	5962-9082902HXX	----------	NO APPROVED SOURCE
1553 Driver/Receiver, Single Channel	5962-9082903HUX	ARX3420	Aeroflex Laboratories Incorporated
1553 Driver/Receiver, Single Channel	5962-9082904HUX	ARX3424	Aeroflex Laboratories Incorporated
1553 Driver/Receiver, Single Channel	5962-9082905HTX	NHI-1531FP	National Hybrid Incorporated
1553 Driver/Receiver, Single Channel	5962-9082905HYX	NHI-1531	National Hybrid Incorporated
1553 Driver/Receiver, Single Channel	5962-9082906HTX	NHI-1545FP	National Hybrid Incorporated
1553 Driver/Receiver, Single Channel	5962-9082906HYX	NHI-1545	National Hybrid Incorporated
1553 Driver/Receiver, Single Channel	5962-9082907HTX	----------	NO APPROVED SOURCE
1553 Driver/Receiver, Single Channel	5962-9082907HXX	----------	NO APPROVED SOURCE
1553 Driver/Receiver, Single Channel	5962-9082907HYX	----------	NO APPROVED SOURCE
1553 Driver/Receiver, Single Channel	5962-9082908HXX	----------	NO APPROVED SOURCE
1553 Driver/Receiver, Single Channel	5962-9082908HYX	----------	NO APPROVED SOURCE
1553 DUAL CHANNEL DRIVER/RECEIVER			
1553 Dual Ch. Drvr/Rec., -15V	5962-8757901XX	----------	NO APPROVED SOURCE
1553 Dual Ch. Drvr/Rec., -15V	5962-8757901YX	----------	NO APPROVED SOURCE
1553 Dual Ch. Drvr/Rec., Low Pwr -15V	5962-8757902XX	BUS-63125II	ILC Data Device Corporation
1553 Dual Ch. Drvr/Rec., Low Pwr -15V	5962-8757902YX	BUS-63126II	ILC Data Device Corporation
1553 Dual Ch. Drvr/Rec., -15V	5962-8757903XX	ARX2411	Aeroflex Laboratories Incorporated
1553 Dual Ch. Drvr/Rec., -15V	5962-8757903YX	ARX2411FP	Aeroflex Laboratories Incorporated
1553 Dual Ch. Drvr/Rec, Low Pwr -15V	5962-8757904XX	ARX3411	Aeroflex Laboratories Incorporated
1553 Dual Ch. Drvr/Rec, Low Pwr -15V	5962-8757904YX	ARX3411FP	Aeroflex Laboratories Incorporated
1553 Dual Ch. Drvr/Rec, Low Pwr -15V	5962-8757905XX	NHI-1500	National Hybrid Incorporated
1553 Dual Ch. Drvr/Rec, Low Pwr -15V	5962-8757905YX	NHI-1500FP	National Hybrid Incorporated

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PRODUCT TYPE/DESCRIPTION	STANDARDIZED MILITARY DRAWING (SMD)	MANUFACTURER SIMILAR PART NUMBER 4/	SOURCE(S)
1553 DUAL CHANNEL DRIVER/RECEIVER			
1553 Dual Ch. Drvr/Rec, Low Pwr -15V	5962-8757906XX	FC1553621	Northern Telecon Hybrids
1553 Dual Ch. Drvr/Rec, Low Pwr -15V	5962-8757906YX	FC1553621FP	Northern Telecon Hybrids
1553 Dual Ch. Drvr/Rec, Low Pwr -15V	5962-8757907XX	----------	NO APPROVED SOURCE
1553 Dual Ch. Drvr/Rec, Low Pwr -15V	5962-8757907YX	----------	NO APPROVED SOURCE
1553 Dual Ch. Drvr/Rec, Low Pwr -15V	5962-8757908XC	MR63125MPR	Micro-Rel
1553 Dual Ch. Drvr/Rec, Low Pwr -15V	5962-8757908YX	----------	NO APPROVED SOURCE
1553 Dual Ch. Drvr/Rec, Idle High	5962-8944701HUX	ARX3436	Aeroflex Laboratories Incorporated
1553 Dual Ch. Drvr/Rec, Idle High	5962-8944701HXX	ARX3416	Aeroflex Laboratories Incorporated
1553 Dual Ch. Drvr/Rec, Idle High	5962-8944701HYX	ARX3416FP	Aeroflex Laboratories Incorporated
1553 Dual Ch. Drvr/Rec, Idle High	5962-8944701HZX	ARX3436FP	Aeroflex Laboratories Incorporated
1553 Dual Ch. Drvr/Rec, Idle High	5962-8944702HXX	NHI-1501	National Hybrid Incorporated
1553 Dual Ch. Drvr/Rec, Idle High	5962-8944702HYX	NHI-1501FP	National Hybrid Incorporated
1553 Dual Ch. Drvr/Rec, Idle High	5962-8944703HXX	FC1553622	Northern Telecon Hybrids
1553 Dual Ch. Drvr/Rec, Idle High	5962-8944703HYX	FC1553622FP	Northern Telecon Hybrids
1553 Dual Ch. Drvr/Rec, Idle High	5962-8944704HXX	BUS63135II	ILC Data Device Corporation
1553 Dual Ch. Drvr/Rec, Idle High	5962-8944704HYX	BUS63136II	ILC Data Device Corporation
1553 Driver/Receiver, Dual Channel	5962-8982601XX	BUS-63127II	ILC Data Device Corporation
1553 Driver/Receiver, Dual Channel	5962-8982601YX	BUS-63128II	ILC Data Device Corporation
1553 Driver/Receiver, Dual Channel	5962-8982602XX	ARX3419	Aeroflex Laboratories Incorporated
1553 Driver/Receiver, Dual Channel	5962-8982602YX	ARX3419FP	Aeroflex Laboratories Incorporated
1553 Driver/Receiver, Dual Channel	5962-8982603XX	NHI-1502	National Hybrid Incorporated
1553 Driver/Receiver, Dual Channel	5962-8982603YX	NHI-1502FP	National Hybrid Incorporated
1553 Driver/Receiver, Dual Channel	5962-8982604XX	NHI-1523	National Hybrid Incorporated
1553 Driver/Receiver, Dual Channel	5962-8982604YX	NHI-1523FP	National Hybrid Incorporated
1553 Driver/Receiver, Dual Channel	5962-8982605XX	FC1553721	Northern Telecon Hybrids
1553 Driver/Receiver, Dual Channel	5962-8982605YX	FC1553721FP	Northern Telecon Hybrids
1553 Driver/Receiver, Dual Channel	5962-8982606XX	----------	NO APPROVED SOURCE
1553 Driver/Receiver, Dual Channel	5962-8982606YX	----------	NO APPROVED SOURCE
1553 Driver/Receiver, Dual Channel	5962-9063601HXX	----------	NO APPROVED SOURCE
1553 Driver/Receiver, Dual Channel	5962-9063601HYX	----------	NO APPROVED SOURCE
1553 Driver/Receiver, Dual Channel	5962-9063602HXX	----------	NO APPROVED SOURCE
1553 Driver/Receiver, Dual Channel	5962-9063602HYX	----------	NO APPROVED SOURCE

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PRODUCT TYPE/DESCRIPTION	STANDARDIZED MILITARY DRAWING (SMD)	MANUFACTURER SIMILAR PART NUMBER 4/	SOURCE(S)
1553 DUAL CHANNEL DRIVER/RECEIVER			
1553 Driver/Receiver, Dual Channel	5962-9063603HXX	ARX2410	Aeroflex Laboratories Incorporated
1553 Driver/Receiver, Dual Channel	5962-9063604HXX	ARX3410	Aeroflex Laboratories Incorporated
1553 MULTIPLEXER			
1553, BC/RTU/MT, Multiplexed Terminal	5962-8869201XX	BUS61553-883B	ILC Data Device Corporation
1553, BC/RTU/MT, Multiplexed Terminal	5962-8869201YX	BUS61563-883B	ILC Data Device Corporation
1553, BC/RTU/MT, Multiplexed Terminal	5962-8869202XX	BUS61554-883B	ILC Data Device Corporation
1553, BC/RTU/MT, Multiplexed Terminal	5962-8869202YX	BUS61564-883B	ILC Data Device Corporation
1553, BC/RTU/MT, Multiplexed Terminal	5962-8869203XX	BUS61555-883B	ILC Data Device Corporation
1553, BC/RTU/MT, Multiplexed Terminal	5962-8869203YX	BUS61565-883B	ILC Data Device Corporation
1553, BC/RTU/MT, Multiplexed Terminal	5962-8869204XX	BUS61556-883B	ILC Data Device Corporation
1553 REMOTE TERMINAL UNIT			
1553 Remote Terminal Unit, Dual Red.	5962-8753501XX	BUS-65112	ILC Data Device Corporation
1553 Remote Terminal Unit, Dual Red.	5962-8753501YX	BUS-65117	ILC Data Device Corporation
1553 Remote Terminal Unit, Dual Red.	5962-8753502XX	ARX2452	Aeroflex Laboratories Incorporated
1553 Remote Terminal Unit, Dual Red.	5962-8753502YX	ARX2452FP	Aeroflex Laboratories Incorporated
1553 Remote Term., Dual Red.,Low Pwr.	5962-8763201XX	----------	NO APPROVED SOURCE
Remote terminal unit, dual redundant	5962-8979801XX	BUS-65142	ILC Data Device Corporation
Remote terminal unit, dual redundant	5962-8979801YX	BUS-65144	ILC Data Device Corporation
Remote terminal unit, dual redundant	5962-8979802XX	BUS65143-883B	ILC Data Device Corporation
Remote terminal unit, dual redundant	5962-8979802YX	BUS65145-883B	ILC Data Device Corporation
1553 Mux/Bus Remote Trmnl, +5V RAM Sup	5962-9168701HXX	NHI-1553RT	National Hybrid Incorporated
1553 Mux/Bus Remote Trmnl, +5V RAM Sup	5962-9168701HYX	NHI-1553RTFP	National Hybrid Incorporated
1553 Mux/Bus Remote Trmnl Unit, SSF-TF	5962-9168702HXX	NHI-1554RT	National Hybrid Incorporated
1553 Mux/Bus Remote Trmnl Unit, SSF-TF	5962-9168702HYX	NHI-1554RTFP	National Hybrid Incorporated
1553 TRANSCEIVER			
1553 Transceiver, Dual Channel, 5V	5962-8952201XX	----------	NO APPROVED SOURCE
1553 Transceiver, Dual Channel, 5V	5962-8952202XX	ARX-2453	Aeroflex Laboratories Incorporated

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PRODUCT TYPE/DESCRIPTION	STANDARDIZED MILITARY DRAWING (SMD)	MANUFACTURER SIMILAR PART NUMBER 4/	SOURCE(S)
1553 TRANSCEIVER			
1553 Transceiver, Dual Channel, 5V	5962-8952202YX	ARX-2453FP	Aeroflex Laboratories Incorporated
1553 Transceiver, Dual Channel, 5V	5962-8952203XX	NHI-1529	National Hybrid Incorporated
1553 Transceiver, Dual Channel, 5V	5962-8952203YX	NHI-1529FP	National Hybrid Incorporated
1553 Transceiver, Dual Channel	5962-8952204XX	----------	NO APPROVED SOURCE
1553 Transceiver, Dual Channel	5962-8952205XX	----------	NO APPROVED SOURCE
1553 Transceiver, Dual Channel	5962-8952205YX	----------	NO APPROVED SOURCE
1553 Transceiver, Dual Channel	5962-8952206XX	FC1553921	Northern Telecon Hybrids
1553 Transceiver, Dual Channel	5962-8952206YX	FC1553921FP	Northern Telecon Hybrids
1553 Transceiver, Dual Channel	5962-8952207XX	FC1553923	Northern Telecon Hybrids
1553 Transceiver, Dual Channel	5962-8952207YX	FC1553923FP	Northern Telecon Hybrids
AMPLIFIER, CURRENT			
Amplifier, current, thick/thin film	7801301GX	CTS0002	CTS Corporation
Amplifier, current, thick/thin film	7801301XX	CTS0002XB	CTS Corporation
Amplifier, current, thick film	7801301XX	ELH0002H/883B	Elantec Incorporated
Amplifier, current, thick film	7801301XX	LH0002H/883B	National Semiconductor Corporation
AMPLIFIER, TRACK AND HOLD			
Amplifier, Track and Hold, 16-bit	5962-9063001HXX	SP9760B	Sipex Corporation
Amplifier, Track & Hold, High Speed	5962-9073001HXX	MN376H/B	Micronetworks Incorporated
Amplifier, Track & Hold, High Speed	5962-9073001HYX	HTC-0300AM/883B	Analog Devices Computer Labs Div.
ANALOG/DIGITAL CONVERTER			
A/D Conv., 12-bit, 20 microseconds	5962-8850801XX	ADC-HX/883B	Datel Incorporated
A/D Conv., 12-bit, 8 microseconds	5962-8850802XX	ADC-HZ/883B	Datel Incorporated
A/D Conv., 12-bit, 8 microseconds	5962-8850802XX	MNADC87H/B	Micronetworks Incorporated
A/D Conv., 12-bit, High Speed	5962-8865801XX	AD578SD/883B	Analog Devices MED
A/D Conv., 12-bit, High Speed	5962-8865802XX	AD578TD/883B	Analog Devices MED
A/D Conv., 12-bit, High Speed	5962-8865803XX	AD578ZSD/883B	Analog Devices MED
A/D Conv., 12-bit, High Speed	5962-8865804XX	AD578ZTD/883B	Analog Devices MED

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TABLE II

PRODUCT TYPE/DESCRIPTION	STANDARDIZED MILITARY DRAWING (SMD)	MANUFACTURER SIMILAR PART NUMBER 4/	SOURCE(S)
ANALOG/DIGITAL CONVERTER			
A/D Conv., 8-bit, Flash	5962-8877601XX	HS1068B	Sipex Corporation
A/D Conv., 16-bit, shrt.cycle 14-bit	5962-8956301HXX	----------	NO APPROVED SOURCE
A/D Conv., 16-bit, shrt.cycle 13-bit	5962-8956302HXX	----------	NO APPROVED SOURCE
A/D Conv., 16-bit, High Speed	5962-8956901HXX	MN5295H/B	Micronetworks Incorporated
A/D Conv., 12-bit, 0 to -10V Int. Ref.	5962-8958301YX	MN5200H/B	Micronetworks Incorporated
A/D Conv., 12-bit, 0 to -10V Ext. Ref.	5962-8958302YX	MN5203H/B	Micronetworks Incorporated
A/D Conv., 12-bit, -5 to +5V Int. Ref.	5962-8958303YX	MN5201H/B	Micronetworks Incorporated
A/D Conv., 12-bit, -5 to +5V Ext. Ref.	5962-8958304YX	MN5204H/B	Micronetworks Incorporated
A/D Conv., 12-bit, -10to -10V Int.Ref.	5962-8958305YX	MN5202H/B	Micronetworks Incorporated
A/D Conv., 12-bit,-10 to -10V Ext.Ref.	5962-8958306YX	MN5205H/B	Micronetworks Incorporated
A/D Conv., 12-bit, 0 to 10V Int. Ref.	5962-8958307YX	MN5206H/B	Micronetworks Incorporated
ADC,Hi Sp, 12-bit, 0 to -10V Int. Ref.	5962-8958401YX	MN5210H/B	Micronetworks Incorporated
ADC,Hi Sp, 12-bit, 0 to -10V Ext. Ref.	5962-8958402YX	MN5213H/B	Micronetworks Incorporated
ADC,Hi Spd, 12-bit, -5 to 5V Int. Ref.	5962-8958403YX	MN5211H/B	Micronetworks Incorporated
ADC, Hi Spd,12-bit,-5 to 5V Ext. Ref.	5962-8958404YX	MN5214H/B	Micronetworks Incorporated
ADC, Hi Spd,12-bit,-10 to 10V Int.Ref.	5962-8958405YX	MN5212H/B	Micronetworks Incorporated
ADC,Hi Spd, 12-bit,-10 to 10V Ext.Ref.	5962-8958406YX	MN5215H/B	Micronetworks Incorporated
ADC, Hi Spd,12-bit, 0 to 10V Int. Ref.	5962-8958407YX	MN5216H/B	Micronetworks Incorporated
A/D Conv,12-bit, 0 to 5V	5962-8959501XX	5245H/B	Micronetworks Incorporated
A/D Conv,12-bit, 0 to 5V	5962-8959501YX	----------	NO APPROVED SOURCE
A/D Conv,12-bit, 0 to 5V, 3-state inp.	5962-8959502XX	5245AH/B	Micronetworks Incorporated
A/D Conv,12-bit, 0 to 5V, 3-state inp.	5962-8959502YX	----------	NO APPROVED SOURCE
A/D Conv,12-bit, +/-2.5V	5962-8959503XX	5246H/B	Micronetworks Incorporated
A/D Conv,12-bit, +/-2.5V	5962-8959503YX	----------	NO APPROVED SOURCE
A/D Conv,12-bit, +/-2.5V, 3-state inp.	5962-8959504XX	5246AH/B	Micronetworks Incorporated
A/D Conv,12-bit, +/-2.5V, 3-state inp.	5962-8959504YX	----------	NO APPROVED SOURCE
A/D Converter, 8-bit, flash	5962-8997901XX	SP1078B	Sipex Corporation
A/D Converter, 16-bit, High Speed	5962-9079501HXX	HS9576S/B	Sipex Corporation
A/D Converter, 16-bit, High Speed	5962-9079502HXX	HS9576T/B	Sipex Corporation
A/D Converter, 12-bit	5962-9099501HXX	CLC925B8C	Comlinear Corporation

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TABLE II

PRODUCT TYPE/DESCRIPTION	STANDARDIZED MILITARY DRAWING (SMD)	MANUFACTURER SIMILAR PART NUMBER 4/	SOURCE(S)
DATA ACQUISITION SYSTEM			
12-bit data acq. sys., 8-ch. diff.inp.	5962-8851401XX	HS9403B-8	Sipex Corporation
12-bit data acq. sys., 16ch. sng-ended	5962-8851402XX	HS9403B-16	Sipex Corporation
12-bit data acq. sys., 16ch. sng-ended	5962-8851402YX	----------	NO APPROVED SOURCE
DC/DC CONVERTERS			
DC/DC Conv., 5V, 15W Out, Single Ch.	5962-8968301HXX	AHE2805S/CH	Advanced Analog
DC/DC Conv., 5V, 15W Out, Single Ch.	5962-8968301HZX	AHE2805SF/CH	Advanced Analog
DC/DC Conv., 5V, 15W Out, Single Ch.	5962-8968302HXX	AHE2805S/CH-SLV	Advanced Analog
DC/DC Conv., 5V, 15W Out, Single Ch.	5962-8968302HZX	AHE2805SF/CH-SLV	Advanced Analog
DC/DC Conv., 5V, 15W Out, Single Ch.	5962-8968303HXX	AHE2805S/CH-MSTR	Advanced Analog
DC/DC Conv., 5V, 15W Out, Single Ch.	5962-8968303HZX	AHE2805SF/CH-MSTR	Advanced Analog
DC/DC Converter, 15W, +/-15V dual out	5962-9157501HXX	AHE2815D/CH	Advanced Analog
DC/DC Converter, 15W, +/-15V dual out	5962-9157501HZX	AHE2815DF/CH	Advanced Analog
DC/DC Converter, 15W, +/-15V dual out	5962-9157502HXX	AHE2815D/CH-SLV	Advanced Analog
DC/DC Converter, 15W, +/-15V dual out	5962-9157502HZX	AHE2815DF/CH-SLV	Advanced Analog
DC/DC Converter, 15W, +/-15V dual out	5962-9157503HXX	AHE2815D/CH-MSTR	Advanced Analog
DC/DC Converter, 15W, +/-15V dual out	5962-9157503HZX	AHE2815DF/CH-MSTR	Advanced Analog
DC/DC conv.,5V,30W out, single ch.	5962-9157901HZX	ATW280S/CH	Advanced Analog
DC/DC conv.,5V,30W out, single ch.	5962-9157902HZX	ATW280S/CH-SLV	Advanced Analog
DC/DC conv.,5V,30W out, single ch.	5962-9157903HZX	ATW280S/CHMSTR	Advanced Analog
DC/DC Converter, Single Ch., 12V, 20W	5962-9158001HXX	AHE2812S/CH	Advanced Analog
DC/DC Converter, Single Ch., 12V, 20W	5962-9158001HZX	AHE2812SF/CH	Advanced Analog
DC/DC Converter, Single Ch., 12V, 20W	5962-9158002HXX	AHE2812S/CH-SLV	Advanced Analog
DC/DC Converter, Single Ch., 12V, 20W	5962-9158002HZX	AHE2812SF/CH-SLV	Advanced Analog
DC/DC Converter, Single Ch., 12V, 20W	5962-9158003HXX	AHE2812S/CH-MSTR	Advanced Analog
DC/DC Converter, Single Ch., 12V, 20W	5962-9158003HZX	AHE2812SF/CH-MSTR	Advanced Analog
DC/DC Converter, Single Ch., 15V, 20W	5962-9162501HXX	AHE2815S/CH	Advanced Analog
DC/DC Converter, Single Ch., 15V, 20W	5962-9162501HZX	AHE2815SF/CH	Advanced Analog
DC/DC Converter, Single Ch., 15V, 20W	5962-9162502HXX	AHE2815S/CH-SLV	Advanced Analog
DC/DC Converter, Single Ch., 15V, 20W	5962-9162502HZX	AHE2815SF/CH-SLV	Advanced Analog
DC/DC Converter, Single Ch., 15V, 20W	5962-9162503HXX	AHE2815S/CH-MSTR	Advanced Analog
DC/DC Converter, Single Ch., 15V, 20W	5962-9162503HZX	AHE2815SF/CH-MSTR	Advanced Analog

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PRODUCT TYPE/DESCRIPTION	STANDARDIZED MILITARY DRAWING (SMD)	MANUFACTURER SIMILAR PART NUMBER 4/	SOURCE(S)
DC/DC CONVERTERS			
DC/DC Converter, 15W, +/-12V dual out	5962-9204001HXX	AHE2812D/CH	Advanced Analog
DC/DC Converter, 15W, +/-12V dual out	5962-9204001HZX	AHE2812DF/CH	Advanced Analog
DC/DC Converter, 15W, +/-12V dual out	5962-9204002HXX	AHE2812D/CH-SLV	Advanced Analog
DC/DC Converter, 15W, +/-12V dual out	5962-9204002HZX	AHE2812DF/CH-SLV	Advanced Analog
DC/DC Converter, 15W, +/-12V dual out	5962-9204003HXX	AHE2812D/CH-MSTR	Advanced Analog
DC/DC Converter, 15W, +/-12V dual out	5962-9204003HYX	AHE2812DF/CH-MSTR	Advanced Analog
DIGITAL/ANALOG CONVERTER			
D/A Conv., 12-bit, Programmable	8300201JX	DAC87CBI	Analog Devices MED
D/A Conv., 12-bit, Programmable	8300201XX	----------	NO APPROVED SOURCE
D/A Conv., 8-bit, 0 to 4V Output	5962-8768801XX	MN3008H/B	Micronetworks Incorporated
D/A Conv., 8-bit, 0 to 4V Output	5962-8768801YX	----------	NO APPROVED SOURCE
D/A Conv., 8-bit, -2 to +2V Output	5962-8768802XX	MN3009H/B	Micronetworks Incorporated
D/A Conv., 8-bit, -2 to +2V Output	5962-8768802YX	----------	NO APPROVED SOURCE
D/A Conv.,12-bit,bipolar,linear,quad	5962-8850901XX	AD390SD/883B	Analog Devices MED
D/A Conv.,12-bit,bipolar,linear,quad	5962-8850902XX	AD390TD/883B	Analog Devices MED
D/A Conv.,12-bit, quad, bipolar	5962-8851001XX	AD394SD/883B	Analog Devices MED
D/A Conv.,12-bit, quad, bipolar	5962-8851002XX	AD394TD/883B	Analog Devices MED
D/A Conv.,12-bit, quad	5962-8851003XX	AD395SD/883B	Analog Devices MED
D/A Conv.,12-bit, quad	5962-8851004XX	AD395TD/883B	Analog Devices MED
D/A Conv., 14-bit, deglitched	5962-8851701XX	DAC-02310-112	ILC Data Device Corporation
D/A Conv., 14-bit, deglitched	5962-8851701YX	DAC-02311-112	ILC Data Device Corporation
D/A Conv., 14-bit, deglitched	5962-8851702XX	DAC-02310-113	ILC Data Device Corporation
D/A Conv., 14-bit, deglitched	5962-8851702YX	DAC-02311-113	ILC Data Device Corporation
D/A Conv., 12-bit, track/hold	5962-8854201XX	ADC00300-112	ILC Data Device Corporation
D/A Conv., 12-bit, track/hold	5962-8854201YX	ADC00302-112	ILC Data Device Corporation
D/A Conv., 12-bit, Quad	5962-8862901XX	----------	NO APPROVED SOURCE
D/A Conv., Triple, 8-bit, Video RAM	5962-8950901XX	RGBDAC3808H/B	Advanced Analog
D/A Conv., 12-bit, binary input	5962-8952801XX	DAC-HBK/883B	Datel Incorporated
D/A Conv., 12-bit, two's complmnt.	5962-8952802XX	DAC-HBK-2/883B	Datel Incorporated
D/A Conv., 16-bit,0 to 10V & +/-5V Out	5962-8953101HXX	DAC-HPB/883B	Datel Incorporated
D/A Conv., 16-bit, +/- 10V Output	5962-8953102HXX	DAC-HPB-1/883B	Datel Incorporated

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PRODUCT TYPE/DESCRIPTION	STANDARDIZED MILITARY DRAWING (SMD)	MANUFACTURER SIMILAR PART NUMBER 4/	SOURCE(S)
DIGITAL/ANALOG CONVERTER			
D/A Conv., 16-bit, +/- 10V Output	5962-8953102HYX	MN3292T/B-V	Micronetworks Incorporated
D/A Conv., 16-bit, 0 to +10V Output	5962-8953103HYX	MN3290T/B-V	Micronetworks Incorporated
D/A Conv., 16-bit, +/- 5V Output	5962-8953104HYX	MN3291T/B-V	Micronetworks Incorporated
D/A Conv., 8-bit, w/ input register	5962-8971801XX	MN3020H/B	Micronetworks Incorporated
D/A Conv., 8-bit, w/ input register	5962-8971801XX	HS3020B/B	Sipex Corporation
D/A Converter, 12-bit, w/ input reg.	5962-9057001HXX	----------	NO APPROVED SOURCE
D/A Converter, 12-bit	5962-9063401HXX	ADH-030II-12-1	ILC Data Device Corporation
DIGITAL TO SYNCHRO/RESOLVER CONVERTER			
Digital to Synchro/Resolver Converter	5962-8998601HXX	DSC-11520-112	ILC Data Device Corporation
Digital to Synchro/Resolver Converter	5962-8998602HXX	DSC-11520-113	ILC Data Device Corporation
Digital to Synchro/Resolver Converter	5962-8998603HXX	DSC-11520-114	ILC Data Device Corporation
Digital to Synchro/Resolver Converter	5962-8998604HXX	DSC-11520-115	ILC Data Device Corporation
DRIVER, HIGH VOLTAGE			
Driver, High Voltage, 1.5 Amp.	5962-8761701XX	----------	NO APPROVED SOURCE
Driver, High Voltage, 3.0 Amp.	5962-8761702XX	----------	NO APPROVED SOURCE
DRIVER/RECEIVER, UNIVERSAL			
Unvl Driver/Rec., Single Ch., Low Pwr.	5962-8959202XX	ARX3404	Aeroflex Laboratories Incorporated
Unvl Driver/Rec., Single Ch., Low Pwr.	5962-8959202YX	ARX3404FP	Aeroflex Laboratories Incorporated
Unvl Driver/Rec., Single Ch., Low Pwr.	5962-8959204XX	ARX3404-001	Aeroflex Laboratories Incorporated
Unvl Driver/Rec., Single Ch., Low Pwr.	5962-8959204YX	ARX3404-001FP	Aeroflex Laboratories Incorporated
FILTER, EMI			
Filter, EMI, 4.0A	5915-9102001HXX	AFC-461	Advanced Analog
Filter, EMI, 4.0A	5915-9102001HZX	AFC-461F	Advanced Analog

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PRODUCT TYPE/DESCRIPTION	STANDARDIZED MILITARY DRAWING (SMD)	MANUFACTURER SIMILAR PART NUMBER 4/	SOURCE(S)
OPERATIONAL AMPLIFIER			
Op amp, thick film	8001301ZX	ADLH0032G/883B	Analog Devices Computer Labs Div.
Op amp, thick film	8001301ZX	ELH0032G/883E10003	Elantec Incorporated
Op amp, thick film	8001301ZX	LH0032G	National Semiconductor Corporation
OPERATIONAL AMPLIFIER, POWER			
Hi Pwr. Op Amp, Ext. Comp., 0.2A Out.	8508701ZX	ELH0041G/883B	Elantec Incorporated
Hi Pwr. Op Amp, Ext. Comp., 0.2A Out.	8508701ZX	LH0041G/883	National Semiconductor Corporation
Hi Pwr. Op Amp, Ext. Comp., 1.0A Out.	8508801YX	ELH0021K/E10036	Elantec Incorporated
Hi Pwr. Op Amp, Ext. Comp., 1.0A Out.	8508801YX	LH0021K	National Semiconductor Corporation
Op Amp, High Power	5962-8762001XX	42106	Micropac Industries Incorporated
Op Amp, High Power	5962-8762002YX	PA51M/883	Apex Microtechnology Corporation
Power Op Amp, High Current	5962-8870101XX	----------	NO APPROVED SOURCE
Operational Amplifier, High Power	5962-9063801HXX	PA07M/883	Apex Microtechnology Corporation
Operational Amplifier, High Power	5962-9063801HXX	MIOP42114/883	Micropac Industries Incorporated
Operational Amplifier, Power	5962-9065901HXX	PA12M/883	Apex Microtechnology Corporation
Operational Amplifier, Power	5962-9065901HXX	MIOP42109/883	Micropac Industries Incorporated
Operational Amplifier, Power	5962-9067901HXX	PA02M/883	Apex Microtechnology Corporation
Power operational amplifier	5962-9072301HXX	PA08M/883	Apex Microtechnology Corporation
Operational Amplifier, High Power	5962-9072301HXX	MIOP42116/883	Micropac Industries Incorporated
Power operational amplifier	5962-9073601HXX	PA84M/883	Apex Microtechnology Corporation
Operational Amplifier, High Power	5962-9082801HXX	PA10M/883	Apex Microtechnology Corporation
Operational Amplifier, High Power	5962-9082801HXX	MIOP42115/883	Micropac Industries Incorporated
Operational Amplifier, Power	5962-9162101HXX	PA83M/883	Apex Microtechnology Corporation
Operational amplifier, High power	5962-9170001HXX	PA09M/883	Apex Microtechnology Corporation
Operational amplifier, High power	5962-9170001HXX	MIOP42119/883	Micropac Industries Incorporated
OPERATIONAL AMPLIFIER, VIDEO			
Video Op Amp, Fast Settling	5962-8857901XX	HOS-050A/883B	Analog Devices Computer Labs Div.
Video Op Amp, Fast Settling	5962-8857902XX	HOS-060SH/883B	Analog Devices Computer Labs Div.

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PRODUCT TYPE/DESCRIPTION	STANDARDIZED MILITARY DRAWING (SMD)	MANUFACTURER SIMILAR PART NUMBER 4/	SOURCE(S)
OPERATIONAL AMPLIFIER, WIDEBAND			
Power Op amp., Wideband, Thick Film	8508901YX	ELH0101AK/E10039	Elantec Incorporated
Power Op Amp., Wideband, Thick Film	8508902YX	ELH0101K/E10038	Elantec Incorporated
Op Amp, Wideband, High Speed	5962-8959401XX	CLC231A8C	Comlinear Corporation
Op Amp, Wideband, Fast Settling	5962-89813013X	----------	NO APPROVED SOURCE
Op Amp, Wideband, Fast Settling	5962-8981301GX	----------	NO APPROVED SOURCE
Operational Amplifier, Wideband	5962-8985801XX	CLC206A8C	Comlinear Corporation
Operational Amp, Wideband, High Speed	5962-8991001XX	CLC200A8C	Comlinear Corporation
Operational Amplifier, Wideband	5962-8991101XX	CLC220A8C	Comlinear Corporation
Operational Amplifier, Wideband	5962-9083301HXX	CLC201A8C	Comlinear Corporation
Op Amp, Wideband	5962-9083501HXX	CLC205A8C	Comlinear Corporation
Operational Amplifier, Wideband	5962-9083601HXX	CLC221A8C	Comlinear Corporation
Operational Amplifier, Wideband	5962-9097701HXX	CLC207A8C	Comlinear Corporation
Operational Amplifier, Wideband	5962-9166501HXX	CLC232A8C	Comlinear Corporation
OPTOCOUPLER			
Optocoupler, Dual Channel	8102801EX	6N134/883B	Hewlett-Packard Company
Optocoupler, Dual Channel	8102801EX	6N134/883B	Micropac Industries Incorporated
Optocoupler, Dual Channel	8102801XX	66072-001/883	Micropac Industries Incorporated
Optocoupler, Dual Channel	8102802PX	HCPL-5631	Hewlett-Packard Company
Optocoupler, Dual Channel	8102802PX	66056-103	Micropac Industries Incorporated
Optocoupler, Dual Channel	81028032X	HCPL-6631	Hewlett-Packard Company
Optocoupler, Dual Channel	81028032X	66123-001	Micropac Industries Incorporated
Optocoupler, Quad	8302401EX	6N140A/883B	Hewlett-Packard Company
Optocoupler, Quad	8302401EX	6N140A/883B	Micropac Industries Incorporated
Optocoupler, Dual Channel	5962-8767901EX	4N55/883B	Hewlett-Packard Company
Optocoupler, Dual Channel	5962-8767901EX	4N55/883B	Micropac Industries Incorporated
Optocoupler, Dual Channel	5962-8767902PX	HCPL-5531	Hewlett-Packard Company
Optocoupler, Dual Channel	5962-8767902PX	66126-103	Micropac Industries Incorporated
Optocoupler, Dual Channel	5962-87679032A	HCPL-6531	Hewlett-Packard Company
Optocoupler, Single Channel, Hi Speed	5962-8876801PX	HCPL-5201	Hewlett-Packard Company
Optocoupler, Dual Channel, Hi Speed	5962-8876901PX	HCPL-5231	Hewlett-Packard Company
Optocoupler, Dual Channel, High Speed	5962-88769022X	HCPL-6231	Hewlett-Packard Company

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PRODUCT TYPE/DESCRIPTION	STANDARDIZED MILITARY DRAWING (SMD)	MANUFACTURER SIMILAR PART NUMBER 4/	SOURCE(S)
OPTOCOUPLER			
Optocoupler, AC/DC Logic Interface	5962-8947701PX	HCPL-5761	Hewlett-Packard Company
Optocoupler, Single Ch., High Speed	5962-8957001PX	HCPL-5401	Hewlett-Packard Company
Optocoupler, Dual Ch., Hi Spd, Com Sup	5962-8957101PX	HCPL-5431	Hewlett-Packard Company
Optocoupler, Dual Ch., Hi Spd, Sep Sup	5962-89571022X	HCPL-6431	Hewlett-Packard Company
Optocoupler, Dual Ch., Line Receiver	5962-8957201EX	HCPL-1931	Hewlett-Packard Company
Optocoupler, Dual Ch., Common supplies	5962-8978501PX	HCPL-5731	Hewlett-Packard Company
Optocoupler, Dual Ch., Common supplies	5962-8978501PX	66058-003	Micropac Industries Incorporated
Optocoupler, Dual Ch., Common supplies	5962-8978501PX	66058-003	Micropac Industries Incorporated
Optocoupler, Dual Ch., Separate spples	5962-89785022X	HCPL-6731	Hewlett-Packard Company
Optocoupler, Dual Ch., Separate spples	5962-89785022X	66124-001	Micropac Industries Incorporated
Optocoupler, Dual Ch., Separate spples	5962-89785022X	66124-001	Micropac Industries Incorporated
Optocoupler, Sngl Ch., Low Cur.,Hi Gn.	5962-8981001PX	HCPL-5701	Hewlett-Packard Company
Optocoupler, Single Ch., transistr out	5962-9085401HPX	HCPL-5501	Hewlett-Packard Company
Optocoupler, Single Ch., transistr out	5962-9085401HPX	66126-105	Micropac Industries Incorporated
R/D CONVERTERS			
R/D Conv., 400Hz., 11.8V	5962-8990801XX	SDC14565III114	ILC Data Device Corporation
R/D Conv., 400Hz., 11.8V	5962-8990802XX	SDC14565III115	ILC Data Device Corporation
R/D Conv., 400Hz.,80Hz. BW, 11.8V	5962-8990803XX	SDC14565III616	ILC Data Device Corporation
R/D Conv.,400Hz,11.8V,trimmed velocity	5962-8990804XX	SDC14566III115	ILC Data Device Corporation
Resolver to Digital Conv., 7.0 V	5962-8990805XX	SDC14565III618	ILC Data Device Corporation
R/D Conv.,1.0V,400 Hz.,LSB Acc.:6 min.	5962-9055101XX	SDC14567III111	ILC Data Device Corporation
R/D Conv.,1.0V,400 Hz.,LSB Acc.:4 min.	5962-9055102XX	SDC14567III112	ILC Data Device Corporation
R/D Conv.,1.0V,400 Hz.,LSB Acc.:2 min.	5962-9055103XX	SDC14567III114	ILC Data Device Corporation
R/D Conv.,1.0V,400 Hz.,LSB Acc.:1 min.	5962-9055104XX	SDC14567III115	ILC Data Device Corporation
R/D Conv.,1.0V,400 Hz.,LSB Acc.:6 min.	5962-9055105XX	SDC14569III111	ILC Data Device Corporation
R/D Conv.,1.0V,400 Hz.,LSB Acc.:4 min.	5962-9055106XX	SDC14569III112	ILC Data Device Corporation
R/D Conv.,1.0V,400 Hz.,LSB Acc.:2 min.	5962-9055107XX	SDC14569III114	ILC Data Device Corporation
R/D Conv.,1.0V,400 Hz.,LSB Acc.:1 min.	5962-9055108XX	SDC14569III115	ILC Data Device Corporation

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PRODUCT TYPE/DESCRIPTION	STANDARDIZED MILITARY DRAWING (SMD)	MANUFACTURER SIMILAR PART NUMBER 4/	SOURCE(S)
R/S TO DIGITAL CONVERTERS			
R/S to Dig. Conv.,400Hz,+/-2.6 arcmin.	5962-8768701XX	HSDC-8920A-883B	ILC Data Device Corporation
R/S to Dig. Conv.,400Hz,+/-4.0 arcmin.	5962-8768702XX	HSDC-8920-883B	ILC Data Device Corporation
R/S to Dig. Conv.,400Hz,+/-2.6 arcmin.	5962-8768703XX	RDC14505-641	ILC Data Device Corporation
R/D or S/D Converter,+/-2.6 arcmin acc	5962-9055401XX	HSDC-8915A-883B	ILC Data Device Corporation
R/D or S/D Converter,+/-4.0 arcmin acc	5962-9055402XX	HSDC-8915-883B	ILC Data Device Corporation
Synchro-Resolver to Digital Converter	5962-9082001HXX	----------	NO APPROVED SOURCE
Synchro-Resolver to Digital Converter	5962-9082002HXX	----------	NO APPROVED SOURCE
REFERENCE, PRECISION VOLTAGE			
Reference, Precision Voltage, +10V	85030013X	----------	NO APPROVED SOURCE
Reference, Precision Voltage, +10V	8503001CX	HS2700SD/883B	Sipex Corporation
Reference, Precision Voltage, +10V	8503001XX	----------	NO APPROVED SOURCE
Reference, Precision Voltage, +10V	8503001YX	2700SD/883B	Analog Devices MED
Reference, Precision Voltage, +10V	8503001YX	HC2700SD/883B	Hycomp Incorporated
Reference, Precision Voltage, +10V	85030023X	----------	NO APPROVED SOURCE
Reference, Precision Voltage, +10V	8503002CX	HS2700UD/883B	Sipex Corporation
Reference, Precision Voltage, +10V	8503002XX	----------	NO APPROVED SOURCE
Reference, Precision Voltage, +10V	8503002YX	2700UD/883B	Analog Devices MED
Reference, Precision Voltage, +10V	8503002YX	HC2700UD/883B	Hycomp Incorporated
Reference, Precision Voltage, -10V	85030033X	----------	NO APPROVED SOURCE
Reference, Precision Voltage, -10V	8503003CX	HS2702SD/883B	Sipex Corporation
Reference, Precision Voltage, -10V	8503003XX	----------	NO APPROVED SOURCE
Reference, Precision Voltage, -10V	8503003YX	2702SD/883B	Analog Devices MED
Reference, Precision Voltage, -10V	8503003YX	HC2702SD/883B	Hycomp Incorporated
Reference, Precision Voltage, +/-10V	85030043X	----------	NO APPROVED SOURCE
Reference, Precision Voltage, +/-10V	8503004CX	HS2702UD/883B	Sipex Corporation
Reference, Precision Voltage, +/-10V	8503004XX	----------	NO APPROVED SOURCE
Reference, Precision Voltage, +/-10V	8503004YX	2702UD/883B	Analog Devices MED
Reference, Precision Voltage, +/-10V	8503004YX	HC2702UD/883B	Hycomp Incorporated
Reference, Precision Voltage, +/-10V	85030053X	----------	NO APPROVED SOURCE
Reference, Precision Voltage, +/-10V	8503005CX	HS2701SD/883B	Sipex Corporation
Reference, Precision Voltage, +/-10V	8503005YX	2701SD/883B	Analog Devices MED

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PRODUCT TYPE/DESCRIPTION	STANDARDIZED MILITARY DRAWING (SMD)	MANUFACTURER SIMILAR PART NUMBER 4/	SOURCE(S)
REFERENCE, PRECISION VOLTAGE			
Reference, Precision Voltage, +/-10V	8503005YX	HC2701SD/883B	Hycomp Incorporated
Reference, Precision Voltage, -10V	85030063X	----------	NO APPROVED SOURCE
Reference, Precision Voltage, -10V	8503006CX	HS2701UD/883B	Sipex Corporation
Reference, Precision Voltage, -10V	8503006YX	2701UD/883B	Analog Devices MED
Reference, Precision Voltage, -10V	8503006YX	HC2701UD/883B	Hycomp Incorporated
S/D CONVERTERS			
S/D Conv., 90V, 400Hz. 2 min. accuracy	5962-8949801XX	SDC14561III603	ILC Data Device Corporation
S/D Conv., 90V, 400Hz. 1 min. accuracy	5962-8949802XX	SDC14561III604	ILC Data Device Corporation
S/D Conv., 11.8V, 400Hz.,2 min. accrcy	5962-8949901XX	SDC14560III607	ILC Data Device Corporation
S/D Conv., 11.8V, 400Hz.,1 min. accrcy	5962-8949902XX	SDC14560III608	ILC Data Device Corporation
S/D Conv., 11.8V, 400Hz.,80 HzBW,2 min	5962-8949903XX	SDC14560-605	ILC Data Device Corporation
S/D Conv., 11.8V, 400Hz.,2 min. accrcy	5962-8949904XX	----------	NO APPROVED SOURCE
S/D Conv., 11.8V, 400Hz.,1 min. accrcy	5962-8949905XX	----------	NO APPROVED SOURCE
S/D Conv., 11.8V, 400Hz.,80 HzBW,2 min	5962-8949906XX	----------	NO APPROVED SOURCE
S/D Converter,400Hz,11.8V,acc.+/-2.6	5962-9070701HXX	SDC14500-635	ILC Data Device Corporation
S/D Converter,400Hz,11.8V,acc.+/-4.0	5962-9070702HXX	SDC14500-636	ILC Data Device Corporation
S/D Converter,60Hz,90V,acc.+/-2.6 arcm	5962-9070703HXX	SDC14502-605	ILC Data Device Corporation
S/D Converter,60Hz,90V,acc.+/-4.0 arcm	5962-9070704HXX	SDC14502-606	ILC Data Device Corporation
S/D Converter,400Hz,11.8V,acc.+/-2.6	5962-9070705HXX	HSD1024-C672H/2	Natel Engineering Company, Inc.
S/D Converter,400Hz,11.8V,acc.+/-4.0	5962-9070706HXX	HSD1024-C673H/2	Natel Engineering Company, Inc.
S/D Converter,60Hz,90V,acc.+/-2.6 arcm	5962-9070707HXX	HSD1024-C674H/2	Natel Engineering Company, Inc.
S/D Converter,60Hz,90V,acc.+/-4.0 arcm	5962-9070708HXX	HSD1024-C675H/2	Natel Engineering Company, Inc.
SAMPLE/HOLD			
Sample/Hold Multiplexer, Dual 8-ch.	5962-8956501XX	HS362SB	Sipex Corporation
Sample/Hold Amp., 16-bit	5962-8956601HCX	HS9716TB	Sipex Corporation

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PRODUCT TYPE/DESCRIPTION	STANDARDIZED MILITARY DRAWING (SMD)	MANUFACTURER SIMILAR PART NUMBER 4/	SOURCE(S)
VOLTAGE FOLLOWER			
Hi Spd. Buffr. Amp., Vol. Fol., FET in	8001401ZX	ADLH0033G/883B	Analog Devices Computer Labs Div.
Hi Spd. Buffr. Amp., Vol. Fol., FET in	8001401ZX	ELH0033G/883B	Elantec Incorporated
Hi Spd. Buffr. Amp., Vol. Fol., FET in	8001401ZX	LH0033G	National Semiconductor Corporation
Hi Spd. Buffr. Amp., Vol. Fol., FET in	8001401ZX	TP0033-83	Teledyne Components
Buffer Amp, FET in.	5962-8965901XX	EL2004G/883B	Elantec Incorporated
Buffer Amp, FET in.	5962-8965901YX	----------	NO APPROVED SOURCE
VOLTAGE REGULATOR			
Voltage Regulator, Dual, +15 & -15V	5962-8949001XX	OM7509SC/883B	Omnirel Corporation

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