

QUALIFICATIONS VALIDATED
ANNUALLY

ADVANCED MICROCIRCUITS
QML-38535-1
25 May 1990

QUALIFIED MANUFACTURERS LIST
OF
ADVANCED MICROCIRCUITS
QUALIFIED UNDER MILITARY SPECIFICATION
MIL-I-38535
MICROCIRCUITS MANUFACTURING
GENERAL REQUIREMENTS FOR

FSC 5962

This list has been prepared for use by or for the Government in the acquisition of advanced microcircuit products covered by Specification MIL-I-38535. Listing of a product is not intended to and does not connote indorsement 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 be certified and perform all required qualification tests; the qualification sample must be produced under a valid authorization to test with DESC certified materials and manufacturing techniques; and he must comply with the requirements specified in MIL-I-38535 prior to the start of any testing.

The listing of microcircuit manufacturing lines in the Qualified Manufacturers List 38535 applies only to products produced in the plant(s) specified herein. Therefore, 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 microcircuit QML devices.

Microcircuits manufactured, assembled, and tested in accordance with MIL-I-38535 shall bear the "QML" certification mark or the "Q" abbreviation. Products manufactured, assembled, and tested shall meet all the provisions of MIL-I-38535; and shall be manufactured on the DESC certified lines as indicated herein. The information contained in this QML reflects the actual manufacturing lines, materials, and manufacturing construction techniques of the particular test sample(s). Any product represented as being compliant shall be manufactured on the lines/flows using the material 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. Microcircuits are not limited to those listed. However, testing must be completed and approved before the product can be shipped or used in the intended application.

To obtain MIL-I-38535 qualified microcircuits, the procurement document must specify that the product be manufactured to MIL-I-38535, and be manufactured as outlined herein. Ordering data is contained in paragraph 6.1 of MIL-I-38535. All procurement documents shall meet the requirements of MIL-I-38535.

1 of 5
ADVANCED MICROCIRCUITS
QML-38535-1

AMSC N/A

DISTRIBUTION STATEMENT A. Approved for public release; distribution is unlimited.

MANUFACTURER 1 /
 AT&T MICROELECTRONICS
 555 UNION BLVD AL, PA 18103

CAGE CODE 98379
SYMBOL CODE CERU

TEST REPORT QML001 1289	PRODUCT CLASS DESIGNATOR Q	RADIATION HARDNESS LEVEL NON-RADHARD	TECHNOLOGY 1.25µm CMOS SLM & DLM	PRODUCT TYPES		DESIGN CENTER LOCATION: ALLENTOWN PA LINE: LAB 5227\5223 FLOW: A89AL1528	MASK DEVELOPMENT LOCATION: ALLENTOWN PA LINE: MOS V FLOW: SIF-MK29-MFG.METH
				ASICS FULL CUSTOM/STANDARD CELL			

VAPER FABRICATION OPERATION(S)

LOCATION: ALLENTOWN PA LINE: MOS V FLOW: PFC-074-LOG84 & PFC-074-LOG185	LOCATION: LINE: FLOW:	LOCATION: LINE: FLOW:
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ASSEMBLY OPERATION(S)

LOCATION: ALLENTOWN PA LINE: J1T MOS CERAMIC ASSY FLOW: SIF-QMP3-FLOW	LOCATION: LINE: FLOW:	ELECTRICAL LOCATION: ALLENTOWN PA LINE: J1T MOS CERAMIC FLOW FLOW: SIF-QMP3-FLOW	ENVIRONMENTAL LOCATION: ALLENTOWN PA LINE: RELIABILITY LAB FLOW: QMP3-BIC/SIF-IL5349FLOW2
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PACKAGE INFORMATION 2 /

TYPE: CASE OUTLINE: P-AE LEAD COUNT: 133 MATRIX SIZE: 13 X 13 LEAD FINISH: GOLD	PIN GRID ARRAY	DUAL-IN-LINE D-10 28 ---	CHIP CARRIER	FLAT PACKS	MISC PACKAGES	MISCELLANEOUS DATA
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SPECIFIC PRODUCT TYPES 3 /

STANDARD MILITARY DRAWING	ESD CLASS	MANUFACTURER SIMILAR PART NUMBER 4 /	PRODUCT TYPE / DESCRIPTION 5 /	SHIPPED
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5962-9070401QXX 1(1.4) WE-DSP-16 DIGITAL SIGNAL PROCESSOR, 16 BIT NO

NOTES:

1/ Manufacturer listed flows are considered proprietary. Listings are to be used as a guideline for customers and should not be considered strict limitations on the manufacturer's ability to produce product outside the QML envelope. The QML listing can be expanded as the manufacturer produces products to new orders. Product can not be shipped unless covered by the QML envelope.

2/ Package lead counts are listed by maximum number of leads covered by qualification. If the manufacturer's package outline drawing is covered by appendix C of MIL-I-38535 then the case outline letter will be listed.

3/ The manufacturer has certified the advanced microcircuits listed, were/are being built, tested and shipped using the certified/qualified lines/flows, processes, materials, and is in full compliance to MIL-I-38535.

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

5/ All devices are military temperature range (-55° - +125° C) unless otherwise specified.

CROSS REFERENCE

TABLE I

The products listed herein are listed in sequential order by military part number for user convenience

STANDARD MILITARY DRAWING (SMD)	MANUFACTURER SIMILAR PART NUMBER <u>4/</u>	PRODUCT TYPE / DESCRIPTION <u>5/</u>	SOURCE(S)
5962-9070401QXX	WE-DSP-16	DIGITAL SIGNAL PROCESSOR 16 BIT	AT&T

APPROVED SOURCE
MASTER PRODUCT LISTING

TABLE II

PRODUCT TYPE/DESCRIPTION ^{5/}	STANDARD MILITARY DRAWING (SMD)	MANUFACTURER SIMILAR PART NUMBER ^{4/}	SOURCE(S)
DIGITAL SIGNAL PROCESOR 16 BIT	5962-9070401QXX	WE-DSP-16	AT&T