

QUALIFIED PRODUCTS LIST

OF

MILITARY SPECIFICATION

MIL-P-55110

PRINTED WIRING BOARDS, RIGID

GENERAL SPECIFICATION FOR

This list has been prepared for use by or for the Government in the acquisition of Printed Wiring Boards to the performance requirements of Specification MIL-P-55110. This listing is not intended to and does not connote indorsement by the Department of Defense. All manufacturers listed herein have been qualified under the requirements as specified in the latest effective issue of the applicable specification. This list is subject to change without notice; revision or amendment of this list will be issued as necessary. The listing does not release the manufacturer from compliance with the specification requirements.



THE ACTIVITY RESPONSIBLE FOR THIS QPL IS THE DEFENSE ELECTRONICS SUPPLY CENTER (DESC-ELST) DAYTON, OH 45444-5764, (513) 296-6225.

Extent of qualification. Qualification of a particular board type shall be extended to cover all conductor patterns of that same board type produced. Qualification of type 3 boards shall be extended to cover type 1 and type 2 boards. Qualification of type 2 boards shall be extended to cover type 1 boards. Qualification with type GF base material shall be extended to cover types GB and GH base materials. Qualification with type GR base material shall be extended to cover type GP base material. Qualification with type GY base material shall be extended to cover types GT and GX base materials. Qualification with type SC base material shall be extended to cover type GC base material. Qualification with type GX base material shall be extended to cover type GT base material. Qualification with types AF, BF, GB, GC, GH, GI, GM, GP, GT, or QI base material shall cover that material only.

NOTES:

- a. The QPL format includes the qualification expiration date as the last six digits of the test reference number (e.g. mm/dd/yy).
- b. An asterisk (*) adjacent to the qualification reference number denotes that the product was tested for and meets the etchback requirements.

BASE MATERIAL

AF (13949/15) - Aramid Fabric, Woven, Majority Polyfunctional Epoxy Resin
BF (13949/22) - Aramid Fabric, Nonwoven, Epoxy Resin
BI (13949/31) - Aramid Fabric, Nonwoven, Polyimide Resin
GB (13949/2) - Glass Base, Woven, Majority Polyfunctional Epoxy Resin, Hot Strength Retention
GC (13949/29) - Glass Base, Woven E, Reinforcement, Majority Cyanate Ester, Flame Resistant
GF (13949/4) - Glass Base, Woven, Majority Difunctional Epoxy Resin, Flame Resistant
GH (13949/5) - Glass Base, Woven, Majority Polyfunctional Epoxy Resin, Hot Strength Retention, Flame Resistant
GI (13949/10) - Glass Base, Woven, Polyimide Resin, Heat Resistant
GM (13949/24) - Glass Base, Woven, Triazine and/or Bismaleimide Modified Epoxy Resin, Flame Resistant
GP (13949/6) - Glass Base, Nonwoven, Polytetrafluoroethylene Resin, Flame Resistant
GR (13949/7) - Glass Base, Nonwoven, Polytetrafluoroethylene Resin, Flame Resistant
GT (13949/8) - Glass Base, Woven, Polytetrafluoroethylene Resin, Flame Resistant
GX (13949/9) - Glass Base, Woven, Polytetrafluoroethylene Resin, Flame Resistant
GY (13949/14) - Glass Base, Woven, Polytetrafluoroethylene Resin, Flame Resistant, for Microwave Application
QI (13949/19) - Quartz Base, Woven, Polyimide Resin, Heat Resistant
SC (13949/27) - Glass Base, Woven S-2, Fiber, Majority Cyanate Ester, Flame Resistant

MANUFACTURER'S NAME (ADDRESS ON LAST PAGE)	TEST REFERENCE EXPIRATION DATE (MM/DD/YY)	MANUFACTURER'S NAME (ADDRESS ON LAST PAGE)	TEST REFERENCE- EXPIRATION DATE (MM/DD/YY)
<u>AF, Type 3</u>			
Advanced Quick Circuits	55110-372-092198*	Circuitronics, Inc.	55110-230-080898
Automated Systems, Inc.	55110-430-042198*	DVH Corp.	55110-079-041597
Loral Federal Systems	55110-496-020197*	EPEC, Inc.	55110-290-010899
Martin Marietta Aerospace	55110-413-112897*	Electronic Circuit & Design	55110-184-101397
N. American Printed Circuits	55110-365-021499*	Electronics Plastics Co.	55110-203-012498
Tyco Engineered Systems	55110-336-102398*	Electropath, Inc.	55110-360-110998
<u>BF, Type 3</u>			
Advance Circuits, Inc.	55110-396-120697*	Elreha Photogene Corp.	55110-894-020396
Advanced Quick Circuits	55110-183-070798*	Frequency Electronics	55110-247-040197
Cosmotronic Company, Inc.	55110-095-061097*	Geometric Circuits, Inc.	55110-216-111596
Lockheed Martin	55110-247-031598*	ITO Industries, Inc.	55110-026-020297
N. American Printed Circuits	55110-005-051798*	Lazer-Tech, Ltd.	55110-95501-041998
Speedy Circuits, Inc.	55110-127-011199*	Microwave Printed Circuits	55110-900-082596
<u>BI, Type 3</u>			
Advance Circuits, Inc.	55110-376-122797*	PEC/Victron	55110-196-120697
Advanced Quick Circuits	55110-184-121398*	Poly Circuits, Inc.	55110-055-010497
Automated Systems, Inc.	55110-367-121297*	Productos Circuitos de Puerto Rico	55110-207-060298
Cosmotronic Company, Inc.	55110-182-091997*	Southwest Circuits, Inc.	55110-170-061097*
Dynaco Acquisition Corp.	55110-209-091298*	Transistor Devices, Inc.	55110-047-032396
Loral Federal Systems	55110-047-012798*	Tri-Star Engineered Products	55110-134-062096
Lockheed Martin	55110-412-031598*	Tritech Manufacturing, Inc.	55110-282-093098
N. American Printed Circuits	55110-006-012499*	Windsor Mfg. Co., Inc.	55110-199-032898
Texas Instruments, Inc.	55110-344-102398*	Xcel Corp.	55110-010-020899
Young Electronics	55110-231-091598*	<u>GF, Type 1 & 2 & 3</u>	
<u>GC, Type 3</u>			
Advance Circuits, Inc.	55110-067-051896*	A & C Electronics	55110-036-040696*
Collins Printed Circuits	55110-008-010697*	AAI Corp.	55110-425-021598
<u>GF, Type 1 & 2</u>			
AEL Defense Corp.	55110-339-112398	Accurate Engineering Corp.	55110-284-090898*
Basler Electric Circuits	55110-265-071796	Action Computer Products, Inc.	55110-099-080596*
Beaver Brook Circuits, Inc.	55110-381-092996	Advance Circuits, Inc.	55110-268-092998*
CGI Circuits, Inc.	55110-114-042097	Advanced Flex 2, Inc.	55110-846-040896*
CPC, Inc.	55110-083-042996	Advanced Quick Circuits	55110-387-102798*
Circuit Board Services, Inc.	55110-072-042897	Ambitech, Inc.	55110-287-092598*
Circuit International	55110-258-091696	American Board Companies	55110-891-032696*
Circuit Services, Inc.	55110-034-121796	Aselsan Mil. Elec. Ind.	55110-174-073197
		Automated Systems, Inc.	55110-248-092098*
		Aydin Electro Fab	55110-368-091898*
		B-C Electronics, Inc.	55110-721-012296*

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Boeing Defense & Space Group	55110-245-090997	Eltek, Ltd	55110-303-080398
CTS Corp.-Connector Division	55110-178-081696*	Etch-Tek, Inc.	55110-202-061097*
Carlton Comelin Circuits, Ltd.	55110-U004-031996	Ferranti International	55110-U007-090696*
Chemitalic A/S	55110-377-022897	Flex Four & Pentaplex	55110-389-042097*
Cidav Printed Circuits, Ltd.	55110-108-031798	Flexible Circuits, Inc.	55110-058-040197*
Circast Electronics, Inc.	55110-U016-010197	Futura Circuits Corp.	55110-015-011097*
Circuit Center, Inc.	55110-450-101796	GAC Printed Circuits	55110-463-102096
Circuit Concepts, Inc.	55110-147-080398*	GEC Marconi	55110-U015-021997
Circuit Images	55110-806-030296	General Components, Inc.	55110-105-062397*
Circuitry Engineering	55110-136-062196*	General Technology Corp.	55110-296-080398*
Circuits DMA, Inc.	55110-375-081896	Graphic Electronics, Ltd.	55110-U025-030198
Cirtech, Inc.	55110-907-053196*	Graphic Research Proto Shop	55110-193-092997*
Collins Printed Circuits	55110-388-082596*	Graphico Electronics Group	55110-95516-011099*
Colonial Circuits, Inc.	55110-069-031497	Hamby Corp.	55110-470-082497*
Compunetics, Inc.	55110-133-063096*	Hans Brockstedt GmbH & Co.	55110-408-040696*
Conejo Circuits, Inc.	55110-004-102398*	Holaday Circuits, Inc.	55110-007-030798* 55110-761-062696
Continental Circuits, Inc.	55110-070-041997*	Hughes Aircraft Co. (1-1)	55110-703-030196*
Cosmotronic Company Corp.	55110-278-091598*	Hughes Aircraft Co. (1-2)	55110-121-072796*
Degussa Electronics PTE, Ltd.	55110-075-042196	Hunter Technology	55110-192-063097*
Delta Circuit Technology, Inc.	55110-032-120297*	I-Con Industries	55110-286-080898*
Diversified Systems, Inc.	55110-228-041197	IMI, Inc.	55110-434-110997*
Dynaco Acquisition Corp.	55110-705-032996*	ITL Circuits, Ltd.	55110-95506-060398*
Dynamic and Proto Circuits	55110-94504-120797*	Interconnection Systems, Ltd.	55110-U018-061997
Dynamic Circuits, Inc.	55110-308-080198*	Irlandus Circuits, Ltd.	55110-U006-061996
E-Systems/Greenville Div.	55110-160-081097*	Janco P/C, Inc.	55110-312-100498
E-Systems/St. Petersburg Div.	55110-418-041198*	Kam Circuits, Ltd.	55110-U022-082297
ECC Corp.	55110-552-111495*	Litton Advanced Circuitry	55110-124-032998
Eastern Manufacturing Corp.	55110-292-110898*	Litronic Industries	55110-035-050696*
Eldec Corp.	55110-081-030698	Lockheed Martin	55110-394-121596*
Electro Etch Circuits, Inc.	55110-371-110896	Loral Federal Systems	55110-495-020197*
Electro Mechanical Design	55110-494-122896	Loral Federal Systems	55110-495-020197*
Electronic Controls Design	55110-198-102498*	Loral Vought Systems	55110-014-012499*
Electropac Canada, Inc.	55110-92519-071596		

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Manchester Circuits, Ltd.	55110-U012-120696*	Prototype Circuits	55110-92510-062496*
Metaplast Circuits, Ltd.	55110-95520-121598*	Pycon, Inc.	55110-409-102897
Methode Electronics, East	55110-030-011299*	QMS Circuits, Inc.	55110-904-061596*
Microtech Printed Circuits	55110-U010-041297	Quality Printed Circuits	55110-044-040196*
Micom Corp.	55110-338-082898*	RJR Circuits, Inc.	55110-247-081297*
Milplex Circuits, Inc.	55110-435-112897	Ramaer Connection Technology	55110-073-070896
Mitsubishi Electronics Corp.	55110-409-102996	Raytheon Co. (4)	55110-167-083096
Mommers Print Services B.V.	55110-072-060198*	Raytheon Co. (5)	55110-018-052097*
Moore Printed Circuits	55110-144-070796*	Rexcan Circuits, Inc.	55110-93509-012397*
Motiv Technologies, Ltd.	55110-158-021798	Rigiflex Technology, Inc.	55110-658-051196*
Multi-Plate Circuits	55110-186-080898*	Ruwel-Werke GmbH	55110-387-072997
Mupac Corp.	55110-215-070196*	SAS Circuits, Inc.	55110-275-092598*
Nordel S.r.l.	55110-380-033196*	Sanmina Corp.	55110-166-092896*
N. American Printed Circuits	55110-388-020798*	Schoeller Elektronik GmbH	55110-Z09-012498
North Texas Circuit Board	55110-305-092798*	Scotts Valley Circuits, Inc.	55110-098-051296*
Northrop Gruman Corp.	55110-710-092096*	Sigma Circuits, Inc. (1)	55110-376-081896*
O.K. Print Corp.	55110-205-062798	Sigma Circuits, Inc. (2)	55110-373-072997*
Omega Circuits & Eng. Corp.	55110-918-062596*	Sovereign Circuits, Inc.	55110-112-052897*
P.C. World	55110-94506-112897*	Spectra, Inc.	55110-004-111897*
PCB, Ltd.	55110-044-040497*	Speedy Circuits, Inc.	55110-498-112996*
Pentadyne/Pentaflex, Inc.	55110-115-052496*	Sun Circuits	55110-128-091997*
Philway Products, Inc.	55110-880-040796*	Syncom Engineering	55110-061-033096*
Pho-Tronics, Inc.	55110-886-103096*	TDS Circuits PLC	55110-523-011596
Pioneer Circuits, Inc.	55110-219-062198*	Tedeum	55110-234-072997
Precision Circuits, Inc.	55110-332-121598*	Teledyne Electronic Tech.	55110-355-010999*
Precision Diversified Ind.	55110-038-122298*	Teradyne Circuits Division	55110-195-060298*
Precision Prototypes, Inc.	55110-335-112198*	Texas Instruments, Inc.	55110-126-120197*
Printca A/S	55110-085-030196	Trans/Circuits, Inc.	55110-895-060796
Printed Circuits, Inc.	55110-192-102398*	Tri-Star Technologies	55110-295-092798*
Productos Circuitos de Puerto Rico	55110-207-060298	Tyco Engineered Systems, Inc.	55110-008-071396*
Proto Circuit, Inc.	55110-763-011396*	United Circuits, Inc.	55110-146-031598
Proto Systems of Atlanta	55110-867-033096*	United Printed Circuits	55110-020-120498*

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Universal Circuits, Inc. (1)	55110-114-102596*	Compunetics, Inc.	55110-190-113097
Universal Circuits, Inc. (2)	55110-227-062798*	Computing Devices Int'l.	55110-888-042096*
Valley Circuits, Inc.	55110-258-060198*	Conejo Circuits, Inc.	55110-005-111698*
Vermont Circuits, Inc.	55110-009-031796*	Cosmotronic Co., Inc.	55110-279-082998*
Watkins-Johnson Company	55110-085-030998	Delta Circuit Technology, Inc.	55110-031-061498*
Westak of Oregon	55110-342-113098*	Dyconex AG	55110-250-012999
Winonics (Brea)	55110-056-032296*	Dynaco Acquisition Corp.	55110-229-070796*
Young Electronics	55110-191-091598*	Dynamic and Proto Circuits	55110-93508-121396*
<u>GI, Type 1 & 2</u>		E-Systems/St. Petersburg Div.	55110-419-022298*
Frequency Electronics	55110-012-120196	Eastern Manufacturing Co.	55110-428-093096*
<u>GI, Type 1 & 2 & 3</u>		Electro Plate Circuitry, Inc.	55110-003-030698*
A & C Electronics	55110-185-020698*	Elta Electronic Industries	55110-893-122896*
ACSIST Associates, Inc.	55110-348-121598*	Eltek, Ltd.	55110-259-091496
Accurate Engineering Corp.	55110-246-101596*	Etch-Tek, Inc.	55110-181-062196*
Action Computer Products	55110-431-082696*	Ferranti International	55110-U008-101196
Advanced Flex, Inc.	55110-402-122897*	Futura Circuits	55110-087-051297
Advanced Flex 2, Inc.	55110-401-042098*	General Components, Inc.	55110-059-071796*
Advanced Flex 3, Inc.	55110-068-062596*	General Technology Corp.	55110-262-082696*
Advanced Quick Circuits	55110-073-020999*	Graphic Products, Inc.	55110-170-160898*
Alternate Circuit Technology	55110-165-051897*	Graphic Research, Inc.	55110-012-011299*
Ambitech, Inc.	55110-287-090198*	Graphic Research Proto Shop	55110-194-092997*
Aselsan Military Elec. Ind.	55110-175-073197	Graphico Electronics Group	55110-92505-031896*
Automated Systems, Inc.	55110-247-090798*	Gulton Data Systems	55110-690-113095*
B-C Electronics, Inc.	55110-441-011298*	Hamby Corp.	55110-469-062797*
Boeing Defense & Space Group	55110-185-062798*	Holaday Circuits, Inc.	55110-008-030798*
C.S. Draper Laboratory	55110-031-030797*	Hollandse Signaalapparaten BV	55110-037-041098*
Chumash Technologies, Inc.	55110-060-062196*	Hughes Aircraft Co. (1-2)	55110-120-121496*
CIMULEC	55110-090-072797	IMI, Inc.	55110-107-040598*
Circuit Concepts, Inc.	55110-147-080398*	I.T.L. Circuits	55110-C93511-051297*
Circuit Express, Inc.	55110-271-083098*	Janco P/C, Inc.	55110-313-110998
Cirtech, Inc.	55110-906-042096*	Johns Hopkins University	55110-258-102097
Collins Printed Circuits	55110-387-082596*	Kam Circuits, Ltd.	55110-U013-032897
Colonial Circuits, Inc.	55110-068-040797	Litronic Industries	55110-034-050696*

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Lockheed Martin	55110-393-121596*	Sigma Circuits, Inc. (2)	55110-056-011198*
Loral Federal Systems	55110-398-101596*	Sovereign Circuits	55110-177-041597*
Loral Vought Systems	55110-803-062696*	Speedy Circuits, Inc.	55110-128-052298*
Marlo Electronics	55110-751-012196*	Sun Circuits, Inc.	55110-402-041996*
Metaplast Circuits, Ltd.	55110-95508-111398*	Syncom Engineering	55110-489-061796*
Methode Electronics East	55110-261-070996*	Teledyne Electronic Tech.	55110-354-010999*
Micom Corp.	55110-382-111798*	Teradyne Circuits Division	55110-196-060298*
Microtech Printed Circuits	55110-U011-051797	Texas Instruments	55110-127-060797*
Motiv Technologies, Ltd.	55110-159-073197	Tyco Engineered Sys., Inc.	55110-225-102398*
N. American Printed Circuits	55110-138-051798*	Universal Circuits, Inc.(2)	55110-228-061798*
North Texas Circuit Board	55110-304-092798*	Universal Circuits, Inc.(4)	55110-164-073197*
Northrop Gruman Corp.	55110-709-092096*	Valley Circuits, Inc.	55110-232-062898*
P.C. World	55110-94507-011098*	Watkins-Johnson	55110-426-120196
PCB, Ltd.	55110-322-102198*	Westak of Oregon, Inc.	55110-043-012497*
Pentadyne/Pentaflex, Inc.	55110-410-092496*	Winonics (Brea)	55110-113-062696*
Philway Products, Inc.	55110-881-040796*	Young Electronics	55110-039-020797*
Pioneer Circuits, Inc.	55110-021-012999*	<u>GM, Type 1, 2 & 3</u>	
Precision Circuits, Inc.	55110-390-012699*	Advance Circuits, Inc.	55110-385-083096*
Precision Diversified Ind.	55110-201-070896*	Advanced Flex, Inc.	55110-091-021598*
Printca A/S	55110-157-120396	Advanced Flex 2, Inc.	55110-135-060598*
Printed Circuits, Inc.	55110-193-102398*	Computing Devices Int'l.	55110-384-110997*
Proto Circuits, Inc.	55110-173-040298*	Graphico Electronics Group	55110-95507-121098*
Proto Systems of Atlanta	55110-868-032996*	Methode Electronics East	55110-180-062397*
Pycon, Inc.	55110-410-102897	N. American Printed Circuits	55110-154-051798*
QMS Circuits, Inc.	55110-311-090598*	P.C.B., Ltd.	55110-420-012398*
RJR Circuits, Inc.	55110-386-092697*	Pentadyne/Pentaflex, Inc.	55110-410-092496*
Raytheon Company (2)	55110-255-061097*	Philway Products, Inc.	55110-199-100996*
Raytheon Company (4)	55110-031-021599*	Precision Circuits, Inc.	55110-050-071798*
Raytheon Company (5)	55110-019-052097*	Precision Diversified Ind.	55110-200-063096*
Rigiflex Technology, Inc.	55110-657-051196*	SAS Circuits, Inc.	55110-862-033096*
SAS Circuits, Inc.	55110-395-111696*	Tyco Engineered Sys., Inc.	55110-865-062696*
Scotts Valley Circuits	55110-014-033096*	Universal Circuits, Inc. (2)	55110-392-120297*

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<u>GR, Type 1 & 2</u>		<u>GY, Type 1 & 2</u>	
Advanced Circuits, Inc.	55110-205-101596	Advanced Flex 3, Inc.	55110-189-052398
Cirtech, Inc.	55110-059-013199	Circuit Concepts	55110-260-101496
Futura Circuits Corp.	55110-155-061397	Collins Printed Circuits	55110-257-061298
Methode Electronics, Inc.	55110-020-031598	Colonial Circuits, Inc.	55110-009-012399
North Texas Circuit Board	55110-426-020798	Compunetics, Inc.	55110-437-020198
P.C. Dynamic Corp.	55110-358-092798	Futura Circuits Corp.	55110-176-061397
Pentadyne/Pentaflex, Inc.	55110-114-041198	General Technology Corp.	55110-897-040196
Poly Circuits, Inc.	55110-078-050497	Methode Electronics, Inc.	55110-036-031598
Precision Circuits, Inc.	55110-391-032998	Microwave Printed Circuitry	55110-900-082596
Speedy Circuits, Inc.	55110-129-111398	North Texas Circuit Board	55110-427-021398
Texas Instruments, Inc.	55110-021-112297	P.C. Dynamics	55110-359-102498
<u>GX, Type 1 & 2</u>		PCB, Ltd.	55110-097-102198
Advance Circuits, Inc.	55110-443-101596	Pentadyne/Pentaflex, Inc.	55110-145-041198
Graphic Products, Inc.	55110-025-031798	Speedy Circuits, Inc.	55110-130-011199
Graphico Precision	55110-94505-041998	Texas Instruments, Inc.	55110-020-112297
Precision Circuits, Inc.	55110-391-012699	Watkins-Johnson	55110-432-021498
Soladyne	55110-143-072296	Xcel Corp.	55110-011-051798
		<u>SC, Type 3</u>	
		Advanced Quick Circuits	55110-035-040497*
		Automated Systems, Inc.	55110-126-062596*
		Lockheed Martin	55110-392-071797*
		N. American Printed Circuits	55110-320-122998*
		Spectra, Inc.	55110-385-120897*

MANUFACTURER'S NAME, ADDRESS AND PLANT	CAGE CODE	MANUFACTURER'S NAME, ADDRESS AND PLANT	CAGE CODE
A & C Electronics 18153 Napa Street Northridge, CA 91325 Plant: Same Address	65812	Alternate Circuit Technology P.O. Box 8240 Ward Hill, MA 01835-8240 Plant: 46 Rogers Road	65316
AAI Corporation P.O. Box 126 Hunt Valley, MD 21031 Plant: York Rd. & Industrial Lane Building 110 Cockeysville, MD 21030	02128	Ambitech, Inc. 8944 Fullbright Avenue Chatsworth, CA 91311 Plant: Same Address	51484
ACSIST Associates, Inc. 3965 Meadowbrook Road St. Louis Park, MN 55426-4505 Plant: Same Address	22637	American Board Companies 320 North Jensen Road Vestal, NY 13850 Plant: Same Address	15602
AEL Defense Corp. 305 Richardson Road Lansdale, PA 19446-1429 Plant: Same Address	93346	Aselsan Military Electronic Industries, Inc. P.O. Box 101 06172 Yenimahalle Ankara Turkey Plant: Same Address	
Accurate Engineering Corporation 8710 TelFair Avenue Sun Valley, CA 91352 Plant: Same Address	1W538	Automated Systems, Inc. 1505 Commerce Drive Brookfield, WI 53005 Plant: Same Address	9F469
Action Computer Products, Inc. 16300 Lindbergh Street Van Nuys, CA 91406-1708 Plant: Same Address	55265	Aydin Electro Fab Corporation 960 River Road Croydon, PA 19020 Plant: Same Address	62939
Advance Circuits, Inc. 15102 Minnetonka Industrial Road Minnetonka, MN 55345-2112 Plant: Same Address	32665	B-C Electronics, Inc. 2500 E. Shady Road Irving, TX 75060-4689 Plant: Same Address	0PGN6
Advanced Flex, Inc. 15115 Industrial Road Minnetonka, MN 55345-2191 Plant: Same Address	61185	Basler Electric Circuits, Inc. 204 Highland Drive, Box 1165 Taylor, TX 76574 Plant: Same Address	65897
Advanced Flex 2, Inc. 4300 Peavy Road Chaska, MN 55318 Plant: Same Address	66695	Beaver Brook Circuits, Inc. P.O. Box 288 Bethel, CT 06801 Plant: 10 Grassy Plain Street	0B3M0
AdvaAdvanced Flex 3, Inc. 5400 Opportunity Court Minnetonka, MN 55345-9025 Plant: Same Address	6U461	Boeing Defense & Space Group P.O. Box 3707 Seattle, WA 98124-2207 Plant: Kent Aerospace Center 20403 68th Avenue South Kent, WA 98031	57779
Advanced Quick Circuits LP 245 East Drive Melbourne, FL 32904-1078 Plant: 600-C N. John Rhodes Blvd. and 200 East Drive Melbourne, FL 32935	64324		

MANUFACTURER'S NAME, ADDRESS AND PLANT	CAGE CODE	MANUFACTURER'S NAME, ADDRESS AND PLANT	CAGE CODE
C.S. Draper Laboratory Printed Circuit Facility 555 Technology Square Cambridge, MA 02139-3563 Plant: Same Address	51993	Circuit Center 4738 Gateway Circle Dayton, OH 45440-1791 Plant: Same Address	8T428
CGI Circuits, Inc. 580 Myles Standish Boulevard Tautin, MA 02780 Plant: Same Address	0KEC2	Circuit Concepts, Inc. 14201 58th Street North Clearwater, FL 33520 Plant: Same Address	73025
CPC, Inc. One Circuit Drive Randolph, MA 02368 Plant: Same Address	79969	Circuit Express, Inc. 229 S. Clark Drive Tempe, AZ 85281-3073 Plant: Same Address	
CTS Corp. 9210 Science Center Drive New Hope, MN 55428 Plant: 1560 Tenth Avenue Baldwin, WI 54002	66886	Circuit Images 3155 Bluff Street Boulder, CO 80301 Plant: Same Address	0CA52
Carlton Comelim Circuits, Ltd. Unit 3-C, Portland Industrial Estate Arlessey, Bed.s SG15 6SG United Kingdom Plant: Same Address	0UE12	Circuit International, Inc. 341 St. Paul Blvd. Carol Stream, IL 60187 Plant: Same Address	61301
Chemitalic A/S Egebjergvej 128 8700 Horsens, Denmark Plant: Same Address	R2774	Circuit Services, Inc. #27 24th Street Kenner, LA 70062-9998 Plant: Same Address	0KG54
Chumash Technologies, Inc. 3007 Bunsen Avenue, Unit F Ventura, CA 93003-7633 Plant: Same Address	67595	Circuitronics, Inc. P.O. Box 2839 Alliance, OH 44601 Plant: 255 E. Perry Street Alliance, OH 44601	0FMG1
Cidav Printed Circuits, Ltd. P.O. Box 10022 Ha Haifa 26110, Israel Plan Plant: 6 Baaley Hamelaha Street Haifa Bay 26110, Israel		Circuitry Engineering 17000 South Broadway Gardena, CA 90248-9998 Plant: Same Address	52794
CIMULEC Z.I. Les Jonquiers 57365 Ennery, France Plant: Same Address		Circuits DMA, Inc. 32900 Capitol Livonia, MI 48150 Plant: Same Address	65706
Circast Electronics, Ltd. Ramsey Road Sydenham, Leamington Spa CV31 1PG England Plant: Same Address	U4375	Cirtech, Inc. 250 E. Emerson Avenue Orange, CA 92665 Plant: Same Address	8K616
Circuit Board Services, Inc. 6024 South 300 West Murray, UT 84107-9998 Plant: Same Address	07E97	Collins Printed Circuits Division of Rockwell International 460 Collins Road, N.E. Cedar Rapids, IA 52498-0001 Plant: Same Address	0EFD0

MANUFACTURER'S NAME, ADDRESS AND PLANT	CAGE CODE	MANUFACTURER'S NAME, ADDRESS AND PLANT	CAGE CODE
Colonial Circuits, Inc. 1026 Warrentown Road Falmouth, VA 22406-9998 Plant: Same Address	6T499	Dynamic and Proto Circuits, Inc. 869 Barton Street Stoney Creek, Ontario L8E 5G6 Canada Plant: Same Address	38898
Compunetics, Inc. 700 Seco Road Monroeville, PA 15146-5176 Plant: Same Address	30598	Dynamic Circuits, Inc. 1831 Tarob Court Milpitas, CA 95035-6825 Plant: Same Address	0SFV5
Computing Devices International 3101 East 80th Street Bloomington, MN 55425-1523 Plant: Same Address	27963	E-Systems, Inc./St. Petersburg Div. P.O. Box 12248 St. Petersburg, FL 33733-2248 Plant: 1501 72nd Street N. St. Petersburg, FL 33733-2248	00724
Conejo Circuits, Inc. 2651 Lavery Court Newbury Park, CA 91320-1597 Plant: Same Address	66505	E-Systems, Inc./Greenville Div. P.O. Box 1056 Greenville, TX 75041 Plant: Majors Field Greenville, TX	05395
Continental Circuits, Inc. 1150 Belle Avenue Winter Springs, FL 32708 Plant: Same Address	4U649	ECC Corp. P.O. Box 176 Jefferson, MA 01522 Plant: 156 Princeton Street Holden, MA 01520	65547
Cosmotronic Company, Inc. 16721 Noyes Avenue Irvine, CA 92714 Plant: Same Address	63695	EPEC, Inc. Industrial Park New Bedford, MA 02745 Plant: Same Address	08817
DVH Corp. 1611 Leadwell Street Van Nuys, CA 91406 Plant: Same Address	8T494	Eastern Manufacturing Corp. 2 Industrial Way Amesbury, MA 01913-3287 Plant: Same Address	0BX48
Degussa Electronics PTE, Ltd. 3 Jalan Kilang Timor Singapore 0315 Plant: Same Address		Eldec Corporation 16700 13th Avenue W. P.O. Box 100 Lynwood, WA 98036 Plant: North Creek Campus 1522 217th Place, SE Bothell, WA 98021	08748
Delta Circuit Technology, Inc. 16028 Arminia Street Van Nuys, CA 91406-1808 Plant: Same Address	8U401	Electro Etch Circuits, Inc. 339 South Isis Avenue Inglewood, CA 90301-2007 Plant: Same Address	66196
Diversified Systems, Inc. 6232 La Pas Trail Indianapolis, IN 46268 Plant: Same Address	5S706	Electro Mechanical Design Services 16618 Oakmont Avenue Gaithersburg, MD 20877-4178 Plant: Same Address	6R136
Dyconex AG Schaffhauserstrasse 580 CH-8052 Zurich, Switzerland Plant: Same Address	0S3N4	Electro Plate Circuitry, Inc. 1430 Century Drive Carrollton, TX 75006 Plant: Same Address	79616

MANUFACTURER'S NAME, ADDRESS AND PLANT	CAGE CODE	MANUFACTURER'S NAME, ADDRESS AND PLANT	CAGE CODE
Electronic Circuits & Design 1100 N. 21st Street, P.O. Box 191 Sebring, OH 44672-0191 Plant: Same Address		Flexible Circuits, Inc. 222 Valley Road Warrington, PA 18976-2580 Plant: Same Address	22928
Electronic Controls Design, Inc. 13626 South Freeman Road Mulino, OR 97042 Plant: Same Address	60000	Frequency Electronics 55 Charles Lindberg Boulevard Mitchel Field, NY 11553-3699 Plant: Same Address	14844
Electronics Plastics Company 20235 Nordhoff Street Chatsworth, CA 91311-9998 Plant: Same Address	55128	Futura Circuits 11950 28th Street, N. St. Petersburg, FL 33716-1816 Plant: Same Address	0CA49
Electropac Canada, Inc. 70-A Boulevard Brunswick Dollard-des-Ormeaux Quebec, Canada H9B 2C5 Plant: Same Address	38722	GAC Printed Circuits 21 Nottingham Street Lowell, MA 01851-3819 Plant: Same Address	0CEV5
Electropath, Inc. 10137 Canoga Avenue Chatsworth, CA 91311-3006 Plant: Same Address	66140	GEC-Marconi, Ltd. GEC-Marconi Research Centre West Hanningfield Road GT Baddow Chelmsford CM2 8HN United Kingdom Plant: Same Address	U0380
Elreha Photogene Corp. 2510 Terminal Drive, S. St. Petersburg, FL 33712-1669 Plant: Same Address	59020	General Components, Inc. 7425 124th Street North Largo, FL 33543 Plant: Same Address	61542
Elta Electronics Industries, Ltd. Israel Aircraft Industries Electronics Division P.O. Box 330 Ashdod, Israel Plant: Same Address		General Technology Corp. 6816 Washington, N.E. Albuquerque, NM 87109-4421 Plant: Same Address	61666
Eltek, Ltd. P.O. Box 159, Sgoola Industrial Park 49101 Petach-Tikva, Israel Plant: Same Address	S4451	Geometric Circuits, Inc. 11 Michael Avenue Farmingdale, NY 11735-3921 Plant: Same Address	65423
Etch-Tek, Inc. 2455 Bates Avenue Concord, CA 94520-1206 Plant: Same Address	0N2E4	Graphic Electronics, Ltd. Marsh Road, Lords Meadow Ind. Estate Crediton, Devon EX17 IEU England Plant: Same Address	0UH63
Ferranti International Cairo Mill, Greenacres Road Waterhead, Oldham Lancashire OL4 3JA England Plant: Same Address	K1159	Graphic Products, Inc. 1140 N.W. 55th Street Fort Lauderdale, FL 33309-2822 Plant: Same Address	66321
Flex Four & Pentaplex 1200 Abbott Drive Elgin, IL 60123-1819 Plant: Same Address	0H0H9	Graphic Research, Inc. 9334 Mason Avenue Chatsworth, CA 91311-5201 Plant: Same Address	3K529

MANUFACTURER'S NAME, ADDRESS AND PLANT	CAGE CODE	MANUFACTURER'S NAME, ADDRESS AND PLANT	CAGE CODE
Graphic Research Proto Shop Facility 9420 Lurline, Bldg. B, Unit F Chatsworth, CA 91311-5201 Plant: Same Address	3K529	IMI, Inc. 140 Hilldale Avenue Haverhill, MA 01830-3830 Plant: Same Address	78259
Graphico Electronics Group 1100 Bellamy Road North Scarborough, Ontario M1H 1H2 Canada Plant: Same Address	37442	ITO Industries, Inc. 8433 197th Avenue Bristol, WI 53104 Plant: Same Address	0NYL8
Gulton Data Systems 6600 Gulton Court, NE P.O. Box 3027 Albuquerque, NM 87109-3027 Plant: Same Address	12574	Integrated Technology, Ltd. (ITL) Circuits 90 Don Park Road Markham, Ontario, Canada L3R 1C4 Plant: Same Address	38747
Hamby Corp. 27704 Avenue Street CA 91355-1218 Plant: Same Address	Valencia, 07284	Interconnection Systems, Ltd. Elden Street South Shields, Tyne & Wear NE33 5BU, England Plant: Same Address	
Hans Brockstedt GmbH and Co. Kiel Str. 120 2300 Kiel-Kronshagen Germany Plant: Same Address		Irlandus Circuits, Ltd. Annesborough 3 Craigavon BT67 9JJ Northern Ireland Plant: Same Address	U4544
Holaday Circuits, Inc. 11126 Bren Road, W. Minnetonka, MN 55343 Plant: Same Address	59554	Janco P/C, Inc. P.O. Box 1309 Dover, NH 03821-1309 Plant: 1 Centre Road Somersworth, NH 03878-2928	55303
Hollandse Signaalapparaten BV Zvidahike Havenweg 40 7554 RR Henglo P.O. Box 42, 7550 GD Henglo The Netherlands Plant: Same Address		Johns Hopkins University Applied Physics Laboratory Johns Hopkins Road Laurel, MD 20723-6099 Plant: Same Address	88898
Hughes Aircraft Company (1) Missile Systems Group P.O. Box 11337, M/S B-4 Tucson, AZ 85734-1337 Plants: 1. 8995 Nogales Highway Bldg. 801 South Tucson, AZ 85734-1337 2. Electronics Products Design Laboratory Bldg. 801/C13 Tucson, AZ 85734-1337	15090 82577	Kam Circuits, Ltd. Station Road Calne, Wiltshire SN11 0JT England Plant: Same Address Lazer-Tech, Ltd. 33 Melford Drive, Unit No. 1 Scarborough, Ontario M1B 2G6 Canada Plant: Same Address	 37848
Hunter Technology 3305 Kiifer Road Santa Clara, CA 95051 Plant: Same Address	55536	Litronic Industries 2950 Redhill Avenue Costa Mesa, CA 92626-7900 Plant: Same Address	4F972
I-Con Industries 1101 Pamela Drive Euless, TX 76040-6811 Plant: Same Address	64794	Litton Advanced Circuitry 4811 W. Kearney Springfield, MO 65801-0847 Plant: Same Address	21390

MANUFACTURER'S NAME, ADDRESS AND PLANT	CAGE CODE	MANUFACTURER'S NAME, ADDRESS AND PLANT	CAGE CODE
Lockheed Martin 498 Oak Road, Silver Springs Shores Ocala, FL 32670 Plant: Same Address	34675	Mitsubishi Electric Corp. Sagami Works Printed Circuit Board Manufacturing Department West 8-1-1 Tsukaguchi, Honmachi, Hyogo 661, Japan Plant: Same Address	
Loral Federal Systems 1801 State Route 17-C Owego, NY 13827-3998 Plant: Same Address	03640	Mommers Print Services, B.V. Peutenweg 2 6101 VZ Echt, Netherlands Plant: Same Address	
Loral Vought Systems P.O. Box 650003 Dallas, TX 75265-0003 Plant: 1701 W. Marshall Drive Grand Prairie, TX 75051	64059	Moore Printed Circuits 8575 Aero Drive San Diego, CA 92123 Plant: Same Address	9H750
Manchester Circuits, Ltd. Victoria Lane Whitefield, Manchester M25 6BW United Kingdom Plant: Same Address		Motiv Technologies, Ltd. 24 Hamlacha Street Yahud, Israel Plant: Same Address	
Marlo Electronics, Inc. 4007 N.E. 6th Avenue Fort Lauderdale, FL 33334-2208 Plant: Same Address	0BW72	Multi-Plate Circuits, Inc. 2362 Lu Field Road Dallas, TX 75229-2022 Plant: Same Address	65340
Metaplast Circuits, Ltd. 180 Hymus Road Scarborough, Ontario M1L 2E1 Canada Plant: Same Address		Mupac Corp. 10 Mupac Drive Brockton, MA 02401 Plant: Mupac PCB Shop 646 Summer Street Brockton, MA 02401	51398
Methode Electronics, Inc. East Ten Industrial Park P.O. Box 2200 Willingboro, NJ 08046-6311 Plant: Same Address	8P688	Nordel S.r.L. Frazione Losa 10070 Pessinetto (Torino), Italy Plant: Same Address	
Micom Corporation 475 NW Eighth Avenue New Brighton, MN 55112 Plant: Same Address	34076	North American Printed Circuits Old Monson Road, P.O.Box 145 Stafford, CT 06075 Plant: Same Address	5L706
Microtech Printed Circuits, Ltd. Unit 9E, Stockton Close Miniworth Industrial Park Sutton Coldfield, West Midlands B79 8DH England Plant: Same Address		North Texas Circuit Board Co., Inc. 1501 West Shady Grove Road Grand Prairie, TX 75050 Plant: Same Address	5S424
Microwave Printed Circuitry 81 Old Ferry Road Lowell, MA 01854-1907 Plant: Same Address	65322	Northrop Gruman Corp. 600 Hicks Road Rolling Meadows, IL 60008-1098 Plant: Same Address	26916
Milplex Circuits, Inc. 1301 W. Ardmore Drive Itasca, IL 60143-1104 Plant: Same Address	0A9E2	OK Print Corp. 3-21-18 Higashi-Koigakubo Kokubunji-Shi, Tokyo 185, Japan Plant: Same Address	

MANUFACTURER'S NAME, ADDRESS AND PLANT	CAGE CODE	MANUFACTURER'S NAME, ADDRESS AND PLANT	CAGE CODE
Omega Circuits and Engineering Corp. 8 Terminal Road New Brunswick, NJ 08901 Plant: Same Address	0XDT1	Precision Diversified Industries 14755 27th Avenue, N. Plymouth, MN 55447-4809 Plant: Same Address	65722
P.C. Dynamics Corp. P.O. Box 277 Frisco, TX 75034 Plant: 2906 East Highway 720 Frisco, TX	67364	Precision Prototypes, Inc. 255 Midland Avenue Garfield, NJ 07026-9998 Plant: Same Address	
P.C. World 250 Finchdene Square Scarborough, Ontario, M1X 1A5 Canada Plant: Same Address		Printca A/S Srendborgvej 3, DK-9220 Aalborg Denmark Plant: Same Address	R2180
PCB, Ltd. P.O. Box 631 Migdal Haemek 10556 Israel Plant: Same Address	S5725	Printed Circuits, Inc. 1200 West 96th Street Minneapolis, MN 55341-2606 Plant: Same Address	65114
PEC Viktron 5780 Carrier Drive Orlando, FL 32819 Plant: Same Address	2X035	Productos Circuitos de Puerto Rico Div. of Westinghouse de Puerto Rico P.O. Box 1415 Juana Diaz, PR 00665-1415 Plant: KM 66.7 Road No. 149 Juana Diaz, PR 00665-1415	
Pentadyne/Pentaflex, Inc. 711 Fee Ana Street Placentia, CA 92670-2108 Plant: Same Address	65708	Proto Circuit, Inc. 2035 Midway Drive Twinsburg, OH 44087-1933 Plant: Same Address	7Z463
Philway Products, Inc. 701 Virginia Avenue Ashland, OH 44805 Plant: Same Address	21971	Prototype Circuits, Inc. 2020 Ellesmere Road Scarborough, Ontario M1H 2Z8 Canada Plant: Same Address	
Pho-Tronics, Inc. 8701 West Bradley Road Milwaukee, WI 53224-2817 Plant: Same Address	79243	Proto Systems of Atlanta 625 Sims Industrial Road Alpharetta, GA 30201 Plant: Same Address	7U718
Pioneer Circuits, Inc. 3010 South Shannon Street Santa Ana, CA 92704 Plant: Same Address	65723	Pycon, Inc. 3501 Leonard Court Santa Clara, CA 95054-2043 Plant: Same Address	0SAV8
Poly Circuits, Inc. 215 Park Street Bensenville, IL 60106-2556 Plant: Same Address	61731	QMS Circuits, Inc. 40 Hill Avenue Ft. Walton Beach, FL 32548-3858 Plant: Same Address	65977
Precision Circuits, Inc. 468 Industrial Way West Eatontown, NJ 07724-2210 Plant: Same Address	18054	Quality Printed Circuits Corp. 5815 South 25th Street Phoenix, AZ 85040-3630 Plant: Same Address	9S429

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RJR Circuits, Inc. 1830 South Bannock Street Denver, CO 80223 Plant: Same Address	66525	Scotts Valley Circuits, Inc. 66 El Pueblo Road Scotts Valley, CA 95066-3573 Plant: Same Address	6M902
Ramaer Connection Technology P.O. Box 32 5700 AA Helmond The Netherlands Plant: Vossenbeemd 101 5705 CL Helmond The Netherlands	H6344	Sigma Circuits, Inc. (1) 393 Matthew Street Santa Clara, CA 95050 Plant: Same Address	65916
Raytheon Company (2) 23 Seyon Street Waltham, MA 02254-8382 Plant: Same Address	99687	Sigma Circuits, Inc. (2) 2970 Airway Avenue Costa Mesa, CA 92626 Plant: Same Address	66649
Raytheon Company (4) 350 Lowell Street Andover, MA 01810-4499 Plant: Same Address	05716	Soladyne 7447 Convoy Court San Diego, CA 92111-1167 Plant: Same Address	1D664
Raytheon Company (5) 20 Seyon Street Waltham, MA 02254-8382 Plant: Same Address	04934	Southwest Circuits, Inc. 3760 East 43rd Place Tucson, AZ 85713-9998 Plant: Same Address	66108
Rexcan Circuits, Inc. 161 Bridge Street, W., Box 949 Belleville, Ontario K8N 5B6 Canada Plant: Same Address		Sovereign Circuits, Inc. P.O. Box 216 N. Jackson, OH 44451 Plant: 12080 DeBartolo Drive N. Jackson, OH 44451	0GN71
Rigiflex Technology, Inc. 3310 West Harvard Street Santa Ana, CA 92704-3920 Plant: Same Address	0XBX9	Spectra, Inc. P.O. Box 420 Clarksburg, MD 20871 Plant: 22250 Comsat Drive Clarksburg, MD 20871	65109
Ruwel-Werke GmbH Postfach 1355, 4170 Geldern 1 Federal Republic of Germany Plant: Same Address	D9180	Speedy Circuits, Inc. 5332 Commercial Drive Huntington Beach, CA 92649-1252 Plant: Same Address	66982
SAS Circuits, Inc. 10570 Bradford Road Littleton, CO 80127-4211 Plant: Same Address	75815	Sun Circuits, Inc. 5191 LaFayette Street Santa Clara, CA 95054-9998 Plant: Same Address	41798
Sanmina Corp. 2101 O'Toole Avenue San Jose, CA 95131 Plant: Same Address	69767	Syncom Engineering 15749 Stagg Street Van Nuys, CA 91406 Plant: Same Address	59969
Schoeller Elektronik GmbH Marburger Strasse D-3552 Wetter/Hessen, Germany Plant: Same Address		TDS Circuits PLC Whitebirk Estate Blackburn, Lancashire, B1 5TD England Plant: Same Address	

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Tedenum 1075 W. Ninth Street Upland, CA 91786-5702 Plant: Same Address	65346	Universal Circuits, Inc. (1) 13305 Industrial Park Blvd. Plymouth, MN 55441-3898 Plant: Same Address	25850
Teledyne Electronic Technologies 110 Lowell Road Hudson, NH 03051-8068 Plant: Same Address	22958	Universal Circuits, Inc. (2) 8860 Zackery Lane Maple Grove, MN 55369-4596 Plant: Same Address	45032
Teradyne Circuits Division 4 Pittsburg Avenue Nashua, NH 03062 Plant: Same Address	3T000	Universal Circuits, Inc. (4) 950 Sunshine Lane Altamonte Springs, FL 32714-3892 Plant: Same Address	66824
Texas Instruments, Inc. P.O. Box 149149 Austin, TX 78769-9149 Plant: 12501 Research Austin, TX 78759	96214	Valley Circuits, Inc. 11031 Glenoaks Blvd. Pacoima, CA 91331 Plant: Same Address	8W955
TRans/Circuits, Inc. 2877 47th Avenue, N. St. Petersburg, FL 33714-3129 Plant: Same Address	0PBH7	Vermont Circuits, Inc. Technology Drive, P.O. Box 1890 Battleboro, VT 05301 65200 Plant: Same Address	
Transistor Devices, Inc. Circuitek Division Box H, Broad Street Delaware Water Gap, PA 18327-0169 Plant: Same Address	09004	Watkins-Johnson Company 700 Quince Orchard Boulevard Gaithersburg, MD 20878-1794 Plant: Same Address	14632
Tri-Star Engineered Products, Inc. 351 Thor Place Brea, CA 92621-4133 Plant: Same Address	5Y828	Westak of Oregon 3941 24th Avenue Forest Grove, OR 97116-2297 Plant: Same Address	65745
Tri-Star Technologies 126 Merrimack Street Methuen, MA 01844-6104 Plant: Same Address	0PBW7	Winonics (Brea) 660 North Puente Street Brea, CA 92621-2830 3L129 Plant: Same Address	
Tritech Manufacturing, Inc. 2728 Commercial Road Ft. Wayne, IN 46809-2922 Plant: Same Address	67006	Windsor Manufacturing Co., Inc. 300 Science Parkway Rochester, NY 14620 0BD01 Plant: Same Address	
Tyco Engineered Systems, Inc. 50 Harrison Street Manchester, CT 06040 Plant: Same Address	65416	Xcell Corp. 4290 E. Brickell Street Ontario, CA 91761 Plant: 720 Huntington Drive Monrovia, CA 91016	
United Circuits, Inc. 100 Pleasant Street, Suite 1 Dracut, MA 01826-4788 Plant: Same Address	65119	Young Electronics 7341 Greenbush Avenue North Hollywood, CA 91605-4091 Plant: Same Address	30803
United Printed Circuits, Inc. 1860 Sparkman Drive Huntsville, AL 35816-1122 Plant: Same Address	0FWU2		