

QUALIFIED PRODUCTS LIST
OF
MILITARY SPECIFICATION
MIL-PRF-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-PRF-55110. This listing is not intended to and does not connote endorsement 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 SUPPLY CENTER COLUMBUS (DSCC-VQE), COLUMBUS, OH 43216-5000, (614) 692-0624.

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 type 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 (13949/91)	- 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 EXPIATION 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.	55110-430-04219B*	DVH Circuits	55110-079-041597
Loral Federal Systems	55110-496-020197*	EPEC, Inc.	55110-290-010899
Martin Marietta Aerospace	55110-413-112897*	Electronics Plastics Co.	55110-203-012498
N. American Printed Circuits	55110-365-021499*	Electropath, Inc.	55110-360-110998
Tyco Engineered Systems	55110-336-102398*	Elreha Photogene Corp.	55110-042-080299
<u>RF, Type 3</u>			
Advance Circuits, Inc.	55110-396-120697*	Frequency Electronics	55110-247-040197
Advanced Quick Circuits	55110-183-070798*	Geometric Circuits, Inc.	55110-216-111596
Cosmotronic Company, Inc.	55110-095-061097*	Graphic Products, Inc.	55110-232-073099
Lockheed Martin	55110-247-031598*	Idaho Circuit Technology	S5110-096-050199
N. American Printed Circuits	55110-005-051798*	ITO Industries, Inc.	55110-026-020297
Speedy Circuits, Inc.	55110-127-011199*	Lazer-Tech, Ltd.	55110-95501-041998
<u>BI, Type 3</u>			
Advance Circuits, Inc.	55110-376-122797*	Micom Circuits-West	55110-362-111798
Advanced Quick Circuits	55110-184-121398*	PEC/Victron	55110-196-120697
Automated Systems, Inc.	55110-367-121297*	Poly Circuits, Inc.	55110-055-010497
Cosmotronic Company, Inc.	55110-182-091997*	Productos Circuitos de Puerto Rico	55110-207-060298
Dynaco Acquisition Corp.	55110-209-091298*	Southwest Circuits, Inc.	55110-170-061097*
Lockheed Martin	55110-412-031598*	Tri-Star Engineered Products	55110-134-061799
Lockheed Martin Federal Sys.	55110-047-012798*	Tritech Manufacturing, Inc.	55110-282-093098
N. American Printed Circuits	55110-006-012499*	Universal Circuits, Inc. (3)	55110-010-022099
Precision Diversified Ind.	55110-162-072499*	Viktron Limited Partnership	55110-258-091696
Texas Instruments, Inc.	55110-344-102398*	Windsor Mfg. Co., Inc.	55110-199-032898
Young Electronics	55110-231-091598*	XCel Corp.	55110-010-020899
<u>GC, Type 3</u>			
Collins Printed Circuits	55110-008-010697*	<u>GF, Type 1 & 2 & 3</u>	
<u>GF, Type 1 & 2</u>			
AEL Defense Corp.	55110-339-112398	A & C Electronics	55110-155-042699*
Beaver Brook Circuits, Inc.	55110-381-092996	AAI Corp.	55110-425-021598
CGI Circuits, Inc.	55110-114-042097	Accurate Engineering Corp.	55110-284-090898*
Circuit Board Services, Inc.	55110-072-042897	Action Computer Products, Inc.	55110-192-080599*
Circuit International	55110-258-091696	Advance Circuits, Inc.	55110-268-092998*
Circuit Services, Inc.	55110-034-121796	Advanced Flex, Inc.	55110-139-061499*
Circuit Technology, Inc.	55110-205-053099	Advanced Flex 2, Inc.	55110-140-051799*
Circuitek	55110-288-090499	Advanced Quick Circuits	55110-287-102798*
		Alternate Circuit Technology	55110-047-040199*
		Ambitech, Inc.	55110-287-092598*
		Aselsan Mil. Elec. Ind.	55110-174-073197

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Automata	55110-115-092699*	Etch-Tek, Inc.	55110-202-061097*
Automated Systems, Inc.	55110-248-092098*	Flex Four & Pentaplex	55110-389-042097*
Aydin Electro Fab	55110-368-091898*	Futura Circuits Corp.	55110-015-011097*
B-C Electronics, Inc.	55110-392-040299*	GAC Printed Circuits	55110-463-102096
Boeing Defense & Space Group	55110-245-090997	GEC Marconi	55110-0015-021997
Bureau of Engraving, Inc.	55110-085-081399*	General Components, Inc.	55110-105-062397*
Carlton Comelin Circuits, Ltd.	55110-0039-031999	General Technology Corp.	55110-296-080398*
Chemitalic A/S	55110-377-022897	Graphic Electronics, Ltd.	55110-0025-030198
Cidav Printed Circuits, Ltd.	55110-108-031798	Graphic Research, Inc.	55110-013-011299*
Circast Electronics, Inc.	55110-0016-010197	Graphic Research Proto Shop	55110-193-092997*
Circuit Center, Inc.	55110-450-101796	Graphico Electronics Group	55110-95516-011099*
Circuit Concepts, Inc.	55110-048-032999*	Hamby Corp.	55110-470-082497*
Circuits CMR Ltée	55110-95503-061799*	Hans Brockstedt GmbH & Co.	55110-ZL-5/96-062599*
Cirtech, Inc.	55110-125-072299*	Holaday Circuits, Inc.	55110-007-030798*
Colonial Circuits, Inc.	35110-069-031497	Hughes Aircraft Co. (1)	55110-163-070199*
Compunetics, Inc.	55110-157-073199*	Hunter Technology	55110-192-063097*
Computing Devices Int'l.	55110-064-040299*	I-Con Industries	55110-286-080898*
Conejo Circuits, Inc.	55110-004-102398*	IMI, Inc.	55110-434-110997*
Continental Circuits, Inc.	55110-070-041997*	ITL Circuits, Ltd.	55110-95506-060398*
Cosmotronic Company Corp.	55110-278-091598*	Interconnection Systems, Ltd.	55110-0018-061997
Delta Circuit Technology, Inc.	55110-032-120297*	Janco P/C, Inc.	55110-312-100498
Diversified Systems, Inc.	55110-229-041197	Kam Circuits, Ltd.	55110-0022-062297
Dynaco Acquisition Corp.	55110-111-040999*	Litton Advanced Circuitry	55110-124-032998
Dynamic and Proto Circuits	55110-94504-120797*	Litronic Industries	55110-135-050699*
Dynamic Circuits, Inc.	55110-308-680198*	Lockheed Martin	55110-394-121596*
E-Systems/Greenville Div.	55110-160-081097*	Lockheed Martin Federal Sys.	55110-495-020197*
E-Systems/St. Petersburg Div.	55110-418-041198*	Lockheed Martin Vought Sys.	55110-014-012499*
Eastern Manufacturing Corp.	55110-292-110898*	Manchester Circuits, Ltd.	55110-0012-120696*
Eldec Corp.	55110-081-030698	McDonald Technologies Int'l.	55110-200-062499*
Electro Etch Circuits, Inc.	55110-371-110896	Merix Corp.	55110-330-032899
Electro Mechanical Design	55110-494-122896	Metaplast Circuits, Ltd.	55110-95520-121590*
Electronic Controls Design	55110-198-102498*	Methode Electronics, East	55110-030-011299*
Eltek, Ltd	55110-303-080398	Micom Corp.	55110-338-002898*

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Microtech Printed Circuits	55110-0031-032499	Rexcan Circuits, Inc.	55110-93509-012397*
Midwest Printed Circuit	55110-062-050299*	Rigiflex Technology, Inc.	55110-179-070199*
Milplex Circuits. Inc.	55110-435-112897	Ruwel-Werke GmbH	55110-387-072997
Mitsubishi Electric Corp.	55110-409-102996	SAS Circuits, Inc.	55110-275-092598*
Mommers Print Services B.V.	55110-072-060198*	Sanmar Electronics Corp., Ltd.	55110-108-040999*
Motiv Technologies, Ltd.	55110-156-021798	Schoeller Electronic GmbH	55110-209-012498
Multi-Plate Circuits	55110-035-031399*	Scotts Valley Circuits, Inc.	55110-143-053099*
Mupac Corp.	55110-233-073099*	Sigma Circuits, Inc. (1)	55110-268-082799*
N. American Printed Circuits	55110-388-020798*	Sigma Circuits, Inc. (2)	55110-373-072997*
North Texas Circuit Board	55110-305-092796*	Sovereign Circuits, Inc.	55110-112-052897*
Northrop Gruman Corp.	55110-165-082359*	Spectra, Inc,	55110-004-111897*
O.K. Print Corp.	55110-205-062798	Speedy Circuits, Inc.	55110-498-112996*
P.C. World	55110-94S06-112897*	Sun Circuits	55110-128-091997*
PCB, Ltd.	55110-044-040497*	Syncom Engineering	55110-254-032099*
Pentadyne/Pentaflex, Inc.	55110-260-080599*	Tedeum	55110-234-072997
Philway Products, Inc.	55110-023-040899*	Teledyne Electronic Tech.	55110-355-010999*
Pho-Tronics, Inc.	55110-147-082799*	Teradyne Circuits Division	55110-195-060298*
Pioneer Circuits. Inc.	55110-219-062198*	Texas Instruments, Inc.	55110-126-120197*
Precision Circuits, Inc.	55110-332-121598*	Trans/Circuits, Inc.	55110-337-062499
Precision Diversified Ind.	55110-038-122298*	Tri-Star Technologies	55110-043-022699*
Precision Prototype, Inc.	55110-335-112198*	Tyco Engineered Systems, Inc.	55110-246-071299*
Printca A/S	55110-119-022899	United Circuits, Inc.	55110-146-031598
Printed Circuits, Inc.	55110-192-102399*	United Printed Circuits	55110-020-120498*
Productos Circuitos de Puerto Rico	55110-207-060298	Universal Circuits, Inc. (1)	55110-114-102596*
Proto Circuit, Inc.	55110-096-040299*	Universal Circuits, Inc. (2)	55110-227-062798*
Proto Systems of Atlanta	55110-400-040299*	Universal Circuits, Inc. (4)	55110-371-031399
Pycon, Inc.	55110-909-102897	Valley Circuits, Inc.	55110-258-060198*
QMS Circuits, Inc.	55110-184-053099*	Vermont Circuits, Inc.	55113-093-031599*
Quality Printed Circuits	55110-245-073099*	Watkins-Johnson Company	55110-085-030998
RJR Circuits, Inc.	55110-247-081297*	Westak of Oregon	55110-342-113096*
Ramaer Connection Technology	55110-073-070896	WR-ALC/LYP	55110-383-100199
Raytheon Co, (2)	55110-393-032999*	Young Electronics	55110-191-091598*
Raytheon Co. (4)	55110-171-070299		
Raytheon Co. (5)	55110-018-052097*		

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<u>GI, Type 1 & 2</u>			
Frequency Electronics	55110-012-120196	Eltek, Ltd,	55110-259-091496
<u>GI, Type 1 & 2 & 3</u>			
A & C Electronics	55110-185-020698*	Fetranti International	55110-0008-101196
Accurate Engineering Corp.	55110-246-101596*	Futura Circuits	55110-087-051297
Advance Circuits, Inc.	55110-399-020599*	Graphic Electronics, Ltd.	55110-0035-022299
Advanced Flex, Inc.	55110-402-122897*	Graphic Products, Inc.	55110-170-160898A
Advanced Flex 2, Inc.	55110-401-042098*	Graphic Research, Inc.	55110-012-0112299*
Advanced Quick Circuits	55110-073-020999*	Graphic Research Proto Shop	55110-194-092997*
Alternata Circuit Technology	55110-165-051897*	Graphico Electronics Group	55110-95517-031999*
Ambitsch, Inc.	55110-287-090198*	Gulton Data Systems	55110-381-113098*
Aselsan Military Elec. Ind.	55110-175-073197	Hamby Corp.	55110-469-062797*
Automated Systems, Inc.	55110-247-090798*	Holaday Circuits, Inc.	55110-008-030798*
B-C Electronics, Inc.	55110-441-011298*	Hollandse Signaalapparaten BV	55110-037-041098*
Boeing Defense & Space Group	55110-185-062798*	Hughes Aircraft Co. (1)	55110-053-040899*
C.S. Draper Laboratory	55110-031-030797*	Hughes Aircraft Co. (2)	55110-120-121496*
CIMULEC	55110-090-072797	IMI, Inc.	55110-107-0411598*
Cidav Printed Circuits, Ltd.	55110-252-082799	I.T.L. Circuits	55110-093511-051297*
Circuit Concepts, Inc.	55110-147-080398*	Janco P/C, Inc.	55110-313-110998
Circuit Express, Inc.	55110-271-083098*	Johns Hopkins University	55110-258-102097
Cirtech, Inc.	55110-198-050299*	Johnson Matthey S.P.I.	55110-348-121598*
Colonial Circuits, Inc.	55110-068-040797	Kam Circuits, Ltd.	55110-0013-032897
Compunetics, Inc.	55110-190-113097	Litronic Industries	55110-136-051099*
Computing Devices Int'l.	55110-065-050199*	Lockheed Martin	55110-393-121596*
Conejo Circuits, Inc.	55110-005-111698*	Lockheed Martin Federal Systems	55110-398-101596*
Cosmotronic Co., Inc.	55110-279-082998*	Lockheed Martin Vought Systems	55110-397-042999*
Delta Circuit Technology	55110-031-061498*	Metaplast Circuits, Ltd.	55110-95508-111398*
Dyconex AG	55110-250-012999	Micom Corp.	55110-382-111798*
Dynaco Acquisition Corp.	55110-112-041799*	Microtech Printed Circuits	55110-0011-051797
Dynamic and Proto Circuits	55110-93508-121396*	Mommers Print Services B.V.	55110-069-030699*
E-Systems/St. Petersburg	55110-419-022298*	Motiv Technologies, Ltd.	55110-159-073197
Eastern Manufacturing Co.	55110-426-093096*	Multi-Plate, Inc.	55110-035-022799*
Electro Plate Circuitry, Inc.	55110-003-030698*	N. American Printed Circuits	55110-138-051798*
Elta Electronic Industries	55110-893-1221396*	North Texas Circuit Board	55210-304-092798*
		Northrop Gruman Corp.	55110-166-082399*

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P.C. World	55110-94507-011096*	Universal Circuits, Inc. (2)	55110-228-061798*
PCB, Ltd.	55110-322-102198*	Universal Circuits, Inc. (4)	55110-164-073197*
Pentadyne/Pentaflex, Inc.	55110-410-092496*	valley Circuits, Inc.	55110-232-062898*
Philway Products, Inc.	55110-022-041299*	Watkins-Johnson	55110-426-120196
Pioneer Circuits, Inc.	55110-021-012999*	Westak of Oregon, Inc.	55110-043-012497*
Precision Circuits, Inc.	55110-390-012699*	WR-ALC/LYP	55110-384-100199
Precision Diversified Ind.	55110-263-090499*	Young Electronics	55110-039-020797*
Printca A/S	55110-157-120396	<u>GM, Type 1, 2 & 3</u>	
Printech Circuit Labs	55110-0026-022899	Advanced Flex, Inc.	55110-091-021598*
Printed Circuits, Inc.	55110-193-102398*	Advanced Flex 2, Inc.	55110-135-060598*
Proto Circuits, Inc.	55110-173-040298*	Collins Printed Circuits	55110-002-032799*
Proto Systems of Atlanta	55110-401-040299*	Computing Devices Int'l.	55110-384-110997*
Pycon, Inc.	55110-410-102897	Graphico Electronics Group	55110-95507-121098*
QMS Circuits, Inc.	55110-311-090598*	Methode Electronics East	55110-180-062397*
RJR Circuits, Inc.	55110-386-092697*	N. American Printed Circuits	55110-154-051798*
Raytheon Company (2)	55110-255-061097*	P.C.B., Ltd.	55110-420-012398*
Raytheon Company (4)	55110-031-021599*	Pentadyne/Pentaflex, Inc.	55110-410-092496*
Raytheon Company (5)	55110-019-052097*	Philway Products, Inc.	55110-199-100996*
Rigiflex Technology, Inc.	55110-180-070399*	Precision Circuits, Inc.	55110-050-071798*
SAS Circuits, Inc.	55110-395-111696*	Precision Diversified Industries	55110-160-080299*
Scotts Valley Circuits	55110-142-053099*	SAS Circuits, Inc.	55110-078-042399*
Sigma Circuits, Inc. (2)	55110-056-011196*	Tyco Engineered Systems, Inc.	55110-045-052299*
Sovereign Circuits	55110-177-041597*	Universal Circuits, Inc. (2)	55110-392-120297*
Spectra, Inc.	55110-094-040599*		
Speedy Circuits, Inc.	55110-128-052298*		
Sun Circuits, Inc.	55110-089-042299*		
Syncom Engineering	55110-340-060599*		
Teledyne Electronic Tech.	55110-354-010999* 55110-145-082399*		
Teradyne Circuits Division	55110-196-060298*		
Texas Instruments	55110-127-060797*		
Tri-Star Technologies	55110-295-092798*		
Tyco Engineered Sys., Inc.	55110-225-102398*		

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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.	55110-189-0S2398
Cirtech, Inc.	55110-059-013199	Circuit Concepts	55110-260-101496
Conejo Circuits, Inc.	55110-049-051399	Collins Printed Circuits	55110-257-061298
Delta Circuit Technology	55110-110-041799	Colonial Circuits, Inc.	55110-009-012399
Electropath, Inc,	55110-106-031599	Compunetics, Inc.	55110-437-020198
Futura Circuits Corp.	55110-155-061397	Delta Circuit Technology	55110-111-032199
Methode Electronics, Inc.	55110-020-031598	Electropath, Inc.	55110-107-032799
North Texas Circuit Board	55110-426-020798	Futura Circuits Corp.	55110-176-061397
P.C. Dynamic Corp.	55110-358-092798	Methode Electronics, Inc.	55110-036-031598
Pentadyne/Pentaflex, Inc.	55110-114-041198	North Texas Circuit Board	55110-427-021398
Pioneer Circuits, Inc.	55110-057-030699	P.C. Dynamics	55110-359-102498
Poly Circuits, Inc.	55110-078-050497	PCB, Ltd.	55110-097-102198
Precision Circuits, Inc.	55110-391-032996	Pentadyne/Pentaflex, Inc.	55110-145-041198
Soladyne	55110-153-070199	Pioneer Circuits, Inc.	55110-058-030699
Speedy Circuits, Inc.	55110-129-111398	Speedy Circuits, Inc.	55110-130-011199
Texas Instruments, Inc.	55110-021-112297	Texas Instruments, Inc.	55110-020-112297
<u>GX, Type 1 & 2</u>		Watkins-Johnson	55110-432-021498
Advance Circuits. Inc.	55110-443-101596	Xcel Corp.	55110-011-051796
Graphic Products, Inc.	55110-025-031798	<u>SC, Type 3</u>	
Graphico Electronics Group	55110-94505-041998	Lockheed Maxtin	55110-392-071797*
Precision Circuits, Inc.	55110-391-012699	N. American Printed Circuits	55110-320-122998*
Soladyne	55130-152-070199	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	Ambitech, Inc. 8944 Fullbright Avenue Chatsworth, CA 91311 Plant: Same Address	51484
AAI Corporation P.O. Box 126 Hunt Valley, MD 21031 Plant: York Rd. & Industrial Lane Building 110 Cockeysville, MD 21030	02128	Aselsan Military Electronic Industries, Inc. P.O. Box 101 06172 Yenimahalle Ankara Turkey Plant: Same Address	
AEL Defense Corp. 305 Richardson Road Lansdale, PA 19446-1429 Plant: Same Address	93346	Automated Systems, Inc. 1505 Commerce Drive Brookfield, WI 53005 Plant: Same Address	9F469
Accurate Engineering Corporation 8710 TelFair Avenue Sun Valley, CA 91352 Plant: Same Address	1w538	Aydin Electro Fab Corporation 960 River Road Croydon, PA 19020 Plant: Same Address	62939
Action Computer Products, Inc. 16300 Lindbergh Street Van Nuys, CA 91406-1706 Plant: Same Address	55265	B-C Electronics, Inc. 2500 E. Shady Road Irving, TX 75060-46B9 Plant: Same Address	0PGN6
Advance Circuits, Inc. 15102 Minnetonka Industrial Road Minnetonka, MN 55345-2112 Plant: Same Address	32665	Beaver Brook Circuits, Inc. P.O. Box 288 Bethel, CT 06801 Plant: 10 Grassy Plain Street	0B3M0
Advanced Flex, Inc. 15115 Industrial Road Minnetonka, MN 55345-2191 Plant: Same Address	61185	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 Flex 2, Inc. 4300 Peavy Road Chaska, MN 55318 Plant: Same Address	66695	Bureau of Engraving, Inc. 3311 Broadway Street, N.E. Minneapolis, MN 55413-1791 Plant: Same Address	06050
Advanced Flex 3, Inc. 5400 Opportunity Court Minnetonka, MN 55345-9025 Plant: Same Address	60461	C.S. Draper Laboratory Printed Circuit Facility 555 Technology Square Cambridge, MA 02139-3563 Plant: Same Address	51993
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	CGI Circuits, Inc. 580 Myles Standish Boulevard Tautin, MA 02760 Plant: Same Address	0KEC2
Alternate Circuit Technology P.O. Box 6240 Ward Hill, MA 01835-8240 Plant: 46 Rogers Road	65316	Carlton Comelim Circuits, Ltd. Unit 3-C, Portland Industrial Estate Arletisey, Beds SG15 6SG United Kingdom Plant: Same Address	0UE12

MANUFACTURER'S NAME, ADDRESS AND PLANT	CAGE CODE	MANUFACTURER'S NAME, ADDRESS AND PLANT	CAGE CODE
Chemitalic A/S Egebjergvej 128 8700 Horsens, Denmark Plant: Same Address	R2774	Circuitek Division of Transistor Devices, Inc. Box H, Broad Street Delaware Water Gap, PA 16327-0169 Plant: Same Address	09004
Cidav Printed Circuits, Ltd. P.O. Box 10022 HA Haifa 26110, Israel Plan Plant: 6 Baalei Hamelaha Street Haifa Bay 26110, Israel		Circuitronics, Inc. P.O. Box 2839 Alliance, OH 44601 Plant: 255 E. Perry Street Alliance, OH 44601	0FMG1
CIMCJLEC Z.I. Les Jonquies 57365 Ennery, France Plant: Same Address		Circuitry Engineering 17000 Smith Broadway Gardena, CA 90248-9998 Plant: Same Address	52794
Circast Electronics, Ltd. Ramsey Road Sydenham, Leamington Spa CV31 1PG England Plant: Same Address	04375	Circuits CMR Ltée 850 Selkirk Pointe Claire, QC H9R 3S2 Canada Plant: Same Address	
Circuit Board Services, Inc. 6024 South 300 West Murray, UT 84107-9998 Plant: Same Address	07E97	Ciztech, Inc. 250 E. Emerson Avenue Orange, CA 92665 Plant: Same Address	8K616
Circuit Center 4738 Gateway Circle Dayton, OH 45440-1791 Plant: Same Address		Collins Printed Circuits Division of Rockwell International 460 Collins Road, N.E. Cedar Rapids, IA 52498-0001 Plant: Same Address	0EFD0
Circuit Concepts, Inc. 14201 58th Street North Clearwater, FL 33520 Plant: Same Address	73025	Colonial Circuits, Inc. 1026 Warrentown Road Falmouth, VA 22406-9998 Plant: Same Address	6T499
Circuit Express, Inc. 229 S. Clark Drive Tempe, AZ 05281-3073 Plant: Same Address		Compunetics, Inc. 700 Seco Road Monroeville, PA 15146-5176 Plant: Same Address	30598
Circuit International, Inc 341 St. Paul Blvd. Carol Stream, IL 60187 Plant: Same Address	61301	Computing Devices International 3101 East 80th Street Bloomington, MN 55425-2523 Plant: Same Address	27963
Circuit Services, Inc. #27 24th Street Kenner, LA 70062-9998 Plant: Same Address	0KG54	Conejo Circuits, Inc. 2651 Lavery Court Newbury Park, CA 91320-1597 Plant: Same Address	66505
Circuit Technology, Inc. 5815 South 25th Street Phoenix, AZ 85040 Plant: Same Address		Continental Circuits, Inc. 1150 Belle Avenue Winter Springs, FL 32708 Plant: Same Address	40649

MANUFACTURER'S NAME, ADDRESS AND PLANT	CAGE CODE	MANUFACTURER'S NAME, ADDRESS AND PLANT	CAGE CODE
Cosmotronic Company, Inc. 16721 Noyes Avenue Irvine, CA 92714 Plant: Same Address	63695	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
DVH Circuits 1611 Leadwell Street Van Nuys, CA 91406 Plant: Same Address	8T494	Electro Etch Circuits, Inc. 339 South Isis Avenue Inglewood, CA 90301-2007 Plant: Same Address	66196
Delta Circuit Technology, Inc. 16028 Arminta Street Van Nuys, CA 91406-1608 Plant: Same Address	80401	Electro Mechanical Design Services 16618 Oakmont Avenue Gaithersburg, MD 20877-4178 Plant: Same Address	6R136
Diversified Systems, Inc. 6232 La Pas Trail Indianapolis, IN 46268 Plant: Same Address	5S706	Electro Plate Circuitry, Inc. 1430 Century Drive Carrollton, TX 75006 Plant: Same Address	79616
Dyconex AG Schaffhauserstrasse 580 CH-8052 Zurich, Switzerland Plant: Same Address	0S3N4	Electronic Controls Design, Inc. 13626 South Freeman Road Mulino, OR 97042 Plant: Same Address	60000
Dynaco Acquisition Corp. 1000 South Priest Tempe, AZ 85281-5238 Plant: Same Address	61642	Electronics Plastics Company 20235 Nordhoff Street Chatsworth, CA 91311-9998 Plant: Same Address	55128
ECC Corp. P.O. Box 176 Jefferson, MA 01522 Plant: 156 Princeton Street Rolden, MA 01520	65547	Electropath, Inc. 10137 Canoga Avenue Chatsworth, CA 91311-3006 Plant: Same Address	66140
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	Elreha Photogene Corp. 2510 Terminal Drive, S. St. Petersburg, FL 33712-1669 Plant: Same Address	59020
E-Systems, Inc./Greenville Div. P.O. Box 1056 Greenville, TX 75041 Plant: Majors Field Greenville, TX	05395	Elta Electronics Industries, Ltd. Israel Aircraft Industries Electronics Division P.O. Box 330 Ashdod, Israel Plant: Same Address	
EPEC, Inc. Industrial Park New Bedford, MA 02745 Plant: Same Address	08817	Eltek, Ltd. P.O. Box 159, Sgoola Industrial Park 49101 Petach-Tikva, Israel Plant: Same Address	S4451
Eastern Manufacturing Corp. 2 Industrial Way Amesbury, MA 01913-3287 Plant: Same Address	0BX48	Etch-Tek, Inc. 2455 Bates Avenue Concord, CA 94520-1206 Plant: Same Address	0N2E4

MANUFACTURER'S NAME, AND PLANT	ADDRESS	CAGE CODE	MANUFACTURER'S NAME, AND PLANT	ADDRESS	CAGE CODE
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 60123-1619 Plant: Same Address		0H0H9	Graphic Research, Inc. 9334 Mason Avenue Chatsworth, CA 91311-5201 Plant: Same Address		38529
Frequency Electronics 55 Charles Lindbergh Boulevard Mitchel Field, NY 11553-3699 Plant: Same Address		14844	Graphic Research Proto Shop Facility 9420 Lurline, Bldg. B, Unit F Chatsworth, CA 91311-5201 Plant: Same Address		3K529
Futura Circuits 11950 28th Street, N. St. Petersburg, FL 33716-1816 Plant: Same Address		0CA49	Graphico Electronics Group 1100 Bellamy Road North Scarborough, Ontario M1H 1H2 Canada Plant: Same Address		37442
GAC Printed Circuits 21 Nottingham Street Lowell, MA 01851-3819 Plant: Same Address		OCEV5	Gulton Data Systems 6600 Gulton Court, NE P.O. Box 3027 Albuquerque, NM 87109-3027 Plant: Same Address		12574
GEC-Marconi, Ltd. GEC-Marconi Research Centre West Hanningfield Road GT Baddow Chelmsford CM2 8HN United Kingdom Plant: Same Address		00380	Hamby Corp. 27704 Avenue Street Valencia, CA 91355-1218 Plant: Same Address		07284
General Components, Inc. 7425 124th Street North Largo, FL 33543 Plant: Same Address		61542	Hans Brockstedt GmbH and Co. Kieler Str. 120 2300 Kiel-Kronshagen Germany Plant: Same Address		
General Technology Corp. 6816 Washington, N.E. Albuquerque, NM 87109-4421 Plant: Same Address		61666	Holaday Circuits, Inc. 11126 Bren Road, W. Minnetonka, MN 55343 Plant: Same Address		59554
Geometric Circuits, Inc. 11 Michael Avenue Farmingdale, NY 11735-3921 Plant: Same Address		65423	Hollandse Signaalapparaten BV Zvidahike Havenweg 40 7554 RR Henglo P.O. Box 42, 7550 GD Henglo The Netherlands Plant: Same Address		
Graphic Electronics, Ltd. Marsh Road, Lords Meadow Ind. Estate Crediton, Devon EX17 IEU England Plant: Same Address		00H63	Hughes Aircraft Company 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

MANUFACTURER'S NAME, AND PLANT	ADDRESS	CAGE CODE	MANUFACTURER'S NAME, AND PLANT	ADDRESS	CAGE CODE
Hunter Technology 3305 Kifer Road Santa Clara, CA 95051 Plant: Same Address		55536	Kam Circuits, Ltd. Station Road Calnc, Wiltshire SN11 0JT England Plant: Same Address		
I-Con Industries 1101 Pamela Drive Euless, TX 76040-68111 Plant: Same Address		64794	Lazer-Tech, Ltd. 33 Melford Drive, Unit No. 1 Scarborough, Ontario M1B 2G6 Canada Plant: Same Address		37648
IMI, Inc. 140 Hilldale Avenue Haverhill MA 01830-3830 Plant: Same Address		78259	Litronic Industries 2950 Redhill Avenue Costa Mesa, CA 92626-7900 Plant: Same Address		4F972
ITO Industries, Inc. 8433 197th Avenue Bristol, WI 53104 Plant: Same Address		0NYL8	Litton Advanced Circuitry 4811 W. Kearney Springfield, MO 65801-0847 Plant: Same Address		21390
Idaho Circuit Technology 401 East First Street Glenns Ferry, ID 83623-0997 Plant: Same Address		0FY98	Lockheed Martin 498 Oak Road, Ocala Operations Ocala, FL 34472 Plant: Same Address		34675
Integrated Technology, Ltd. (ITL) Circuits 90 Don Park Road Markham, Ontario, Canada L3R 1C4 Plant: Same Address		38747	Lockheed Martin Federal Systems 1801 State Route 17-C Owego, NY 13827-3998 Plant: Same Address		03640
Interconnection Systems, Ltd. Elden Street South Shields, Tryne & Wear NE33 5BU, England Plant: Same Address			Lockheed Martin Vought Systems P.O. Box 650003 Dallas, TX 75265-0003 Plant: 1701 W. Marshall Drive Grand Prairie, TX 75051		64059
Irlandus Circuits, Ltd. Annesborough 3 Craigavon BT67 9JJ Northern Ireland Plant: Same Address		04544	Manchester Circuits, Ltd. Victoria Lane Whitefield, Manchester M25 6BW United Kingdom Plant: Same Address		
Janco P/C, Inc. P.O. Box 1309 Dover, NH 03821-1309 Plant: 1 Centre Road Somersworth, NH 03878-2928		55303	McDonald Technologies International, Inc. 2220 West Petersmith Fort Worth, TX 76102-4396 Plant: 2012 15th Avenue Fort Worth, TX 76102		56874
Johns Hopkins University Applied Physics Laboratory Johns Hopkins Road Laurel, MD 20723-6099 Plant: Same Address		88098	Merix Corporation P.O. Box 3000 Forest Grove, OR 97116-9998 Plant: Same Address		01KV9
Johnson Matthey Semiconductor Products, Inc. 3965 Meadowbrook Road St. Louis Park, MN 55426-4505 Plant: Same Address		22637	Metaplast Circuits, Ltd. 180 Hymus Road Scarborough, Ontario M1L 2E1 Canada Plant: Same Address		

MANUFACTURER'S NAME, ADDRESS AND PLANT	CAGE CODE	MANUFACTURER'S NAME, ADDRESS AND PLANT	CAGE CODE
Methode Electronics, Inc. East Ten Industrial Park P.O. Box 2200 Willingboro, NJ 06046-6311 Plant: Same Address	8P688	North American Printed Circuits Old Monson Road, P.O. Box 145 Stafford, CT 06075 Plant: Same Address	5L706
Micom Corporation 475 NW Eighth Avenue New Brighton, MN 55112 Plant: Same Address	34076	North Texas Circuit Board Co., Inc. 1501 West Shady Grove Road Grand Prairie, TX 75050 Plant: Same Address	55424
Micom Circuits-West 1609 West 17th Street Tampa, AZ 55281-6227 Plant: Same Address	0KN48	Northrop Gruman Corp. 600 Hicks Road Rolling Meadows, IL 60008-1098 Plant: Same Address	26916
Microtech Printed Circuits, Ltd. Unit 9E, Stockton Close Miniworth Industrial Park Sutton Coldfield, West Midlands B79 8DH England Plant: Same Address		OK Print Corp. 3-21-18 Higashi-Koigakubo Kokubunji-Shi, Tokyo 185, Japan Plant: Same Address	
Midwest Printed Circuits Services 1741 Circuit Drive Round Lake Beach, IL 60073-9996 Plant: Same Address		P.C. Dynamics Corp. P.O. Box 277 Frisco, TX 75034 Plant: 2906 East Highway 720 Frisco, TX	67364
Milplex Circuits, Inc. 1301 W. Ardmore Drive Itasca, IL 60143-1104 Plant: Same Address	0A9E2	P.C. World 250 Finchdene Square Scarborough, Ontario, M1X 1A5 Canada Plant: Same Address	
Mitsubishi Electric Corp. Sagami Works Printed Circuit Board Manufacturing Department West 8-1-1 Tsukaguchi, Honmachi, Hyogo 661, Japan Plant: Same Address		PCB, Ltd. P.O. Box 631 Migdal Haemk 10556 Israel Plant: Same Address	S5725
Mommers Print Services, B.V. Peutenweg 2 6101 VZ Echt, Netherlands Plant: Same Address		PEC Viktron 5780 Carrier Drive Orlando, FL 32819 Plant: Same Address	2X035
Motiv Technologies, Ltd. 24 Hamlacha Street Yahud, Israel Plant: Same Address		Pentadyne/Pentaflex, Inc. 711 Fee Ana Street Placentia, CA 92670-2108 Plant: Same Address	65708
Multi-Plate Circuits, Inc. 2362 Lu Field Road Dallas, TX 75229-2022 Plant: Same Address	65340	Philway Products, Inc. 701 Virginia Avenue Ashland, OH 44805 Plant: Same Address	21971
Mupac Corp. 10 Mupac Drive Brockton, MA 02401 Plant: Mupac PCB Shop 646 Summer Street Brockton, MA 02401	51398	Pho-Tronics, Inc. 8701 West Bradley Road Milwaukee, WI 53224-2817 Plant: Same Address	79243
		Pioneer Circuits, Inc. 3010 South Shannon Street Santa Ana, CA 92704 Plant: Same Address	65723

MANUFACTURER'S NAME, ADDRESS AND PLANT	CAGE CODE	MANUFACTURER'S NAME, ADDRESS AND PLANT	CAGE CODE
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
Precision Diversified Industries 14755 27th Avenue, N. Plymouth, MN 55447-4809 Plant: Same Address	65722	RJR Circuits, Inc. 1830 South Bannock Street Denver, CO 80223 Plant: Same Address	66525
Precision Prototypes, Inc. 255 Midland Avenue Garfield, NJ 07026-1710 Plant: Same Address	3T319	Ramaer Connection Technology P.O. Box 32 5700 AA Helmond The Netherlands Plant: Vossenbeemd 101 5705 CL Helmond The Netherlands	H6344
Printca A/S Srendborgvej 3, DK-9220 Aalberg Denmark Plant: Same Address	R2180	Raytheon Company (2) 23 Seyon Street Waltham, MA 02254-8382 Plant: Same Address	99687
Printech Circuit Laboratories, Ltd. 31-35 Halt Whistle Road South Woodham Ferrers Chelmsford, Essex CM52A England Plant: Same Address	U9426	Raytheon Company (4) 350 Lowell Street Andover, MA 01810-4499 Plant: Same Address	05716
Printed Circuits, Inc. 1200 West 96th Street Minneapolis, MN 55341-2606 Plant: Same Address	65114	Raytheon Company (5) 20 Seyon Street Waltham, MA 02254-8382 Plant: Same Address	04934
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		Rexcan Circuits, Inc. 161 Bridge Street W., Box 949 Belleville, Ontario K8N 5B6 Canada Plant: Same Address	
Proto Circuit, Inc. 2035 Midway Drive Twinsburg, OH 44087-1933 Plant: Same Address	72463	Rigiflex Technology, Inc. 3310 West Harvard Street Santa Ana, CA 92704-3920 Plant: Same Address	0XBX9
Proto Systems of Atlanta 625 Sims Industrial Road Alpharetta, GA 30201 Plant: Same Address	7U718	Ruwel-Werke GmbH Postfach 1355, 4170 Geldern 1 Federal Republic of Germany Plant: Same Address	D9180
Pycon, Inc. 3501 Leonard Court Santa Clara, CA 95054-2043 Plant: Same Address	0SAV8	SAS Circuits, Inc. 10570 Bradford Road Littleton, CO 80127-4211 Plant: Same Address	75815

MANUFACTURER'S NAME, ADDRESS AND PLANT	CAGE CODE	MANUFACTURER'S NAME, ADDRESS AND PLANT	CAGE CODE
Sanmar Electronics Corp. Ltd. Micro Pack Division SRI Raghavendra Complex 2805 10th Main Road, 4th Block Jayanagar, Bangalore 560 011 India Plant: Micro Pack Plot No. 16, Jigani Industrial Area Anekal Taluk, Bangalore District 562 106. India		Sun Circuits, Inc. 5191 LaFayette Street Santa Clara, CA 95054-9998 Plant: Same Address	41798
		Syncom Engineering 15749 Stagg Street Van Nuys, CA 91406 Plant: Same Address	59969
Sanmina Corp. 2101 O'Toole Avenue San Jose, CA 95131 Plant: Same Address	69767	Tedenum 1075 W. Ninth Street Upland, CA 91786-5702 Plant: Same Address	65346
Schoeller Electronic GmbH Marburger Strasse D-3552 Wetter/Hessen, Germany Plant: Same Address		Teledyne Electronic Technologies 110 Lowell Road Hudson, NH 03051-0068 Plant: Same Address	22959
Scotts Valley Circuits, Inc. 66 El Pueblo Road Scotts Valley, CA 95066-3573 Plant: Same Address	6M902	Teradyne Circuits Division 4 Pittsburgh Avenue Nashua, NH 03062 Plant: Same Address	3T000
Sigma Circuits, Inc. (1) 393 Matthew Street Santa Clara, CA 95050 Plant: Same Address	65916	Texas Instruments, Ins. P.O. Box 149149 Austin, TX 78769-9149 Plant: 12501 Research Austin, TX 76759	96214
Sigma Circuits, Inc. (2) 2970 Airway Avenue Costa Mesa, CA 92626 Plant: Same Address	66649	Trans/Circuits, Inc. 2077 47th Avenue, N. St. Petersburg, FL 33714-3129 Plant: Same Address	0PBH7
Soladyne 7447 Convoy Court San Diego, CA 92111-1167 Plant: Same Address	5S655	Tri-Star Engineered Products, Inc. 351 Thor Place Brea, CA 92621-4133 Plant: Same Address	5Y828
Southwest Circuits, Inc. 3760 East 43rd Place Tucson, AZ 85713-9998 Plant: Same Address	66108	Tri-Star Technologies 126 Merrimack Street Methuen, MA 01844-6104 Plant: Same Address	0PBW7
Sovereign Circuits, Inc. P.O. Box 216 N. Jackson, OH 44451 Plant: 12080 DeBartolo Drive N. Jackson, WI 4451	0GN71	Tritech Manufacturing, Inc. 2728 Commercial Road Ft. Wayne, IN 46809-2922 Plant: Same Address	67006
Spectra. Inc. P.O. Box 420 Clarksburg, MD 20871 Plant: 22250 Comsat Drive Clarksburg, MD 20871	65109	Tyco Engineered Systems, Inc. 50 Harrison Street Manchester. CT 06040 Plant: Same Address	65416
Speedy Circuits, Inc. 5332 Commercial Drive Huntington Beach, CA 92649-1252 Plant: Same Address	66982	United Circuits, Inc. 100 Pleasant Street, Suite 1 Dracut, MA 01826-4788 Plant: Same Address	65119

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United Printed Circuits, Inc. 1860 Sparkman Drive Huntsville, AL 35816-1122 Plant: Same Address	0FWU2	Windsor Manufacturing Co., Inc. 300 Science Parkway Rochester, NY 14620 Plant: Same Address	0BD01
Universal Circuits, Inc. (1) 200 Centennial Drive Buffalo, MN 55313 Plant: Same Address	25850	Xcell Corp. 4290 E. Brickell Street Ontario, CA 91761 Plant: 720 Huntington Drive Monrovia, CA 91016	
Universal Circuits, Inc. (2) 8860 Zackery Lane Maple Grove, MN 55369-4596 Plant: Same Address	45032	Young Electronics 7341 Greenbush Avenue North Hollywood, CA 91605-4091 Plant: Same Address	30003
Universal Circuits, Inc. (3) 202 North 9th Avenue East Lake Mills, IA 50450-1902 Plant: Same Address	0AE24		
Universal Circuits, Inc. (4) 950 Sunshine Lane Altamonte Springs, FL 32714-3892 Plant: Same Address	66024		
Valley Circuits, Inc. 11031 Glenoaks Blvd. Pacoima, CA 91331 Plant: Same Address	BW955		
Vermont Circuits, Inc. Technology Drive, P.O. Box 1890 Battleboro, VT 05301 Plant: Same Address	65200		
Viktron Limited Partnership 341 St. Paul Blvd. Carol Stream, IL 60187 Plant: Same Address	61301		
WR-ALC/LYP Avionics Managemeent Directorate Production Division 380 2nd Street, Suite 104 Robbins AFB, GA 31098-1638 Plant: Same Address	0RCH2		
Watkins-Johnson Company 700 Quince Orchard Boulevard Gaithersburg, MD 20878-1794 Plant: Same Address	14632		
Westak of Oregon 3941 24th Avenue Forest Grove, OR 97116-2297 Plant: Same Address	65745		