Specification Details: **Date: 11/4/2010**

Specification: MIL-PRF-55110
Title: Printed Wiring Board, Rigid
Federal Supply Class (FSC): 5998
Conventional: Yes
Specification contains quality assurance program: No
MIL-STD-790 Established Reliability & High Reliability: No
MIL-STD-690 Failure Rate Sampling Plans & Procedures: No
Weibull Graded: No
Specification contains space level reliability requirements: No
Specification allows test optimization: No

Contact Information:

Office of Primary Involvement: Electronic Devices Branch, DLA Land and Maritime - VQE
Primary Qualifying Activity Contact: 614-692-0627, e-mail: vqe.ls@dla.mil
Secondary Qualifying Activity Contact: 614-692-0631, e-mail: vqe.bw@dla.mil

Notes:

Effective 31 December 1998, MIL-PRF-55110 has been declared "Inactive for New Design." For new design, use MIL-PRF-31032. This is applicable on all acquisitions to which MIL-PRF-55110 is applied.

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, or QI base material shall cover that material only.

a. The last six digits of the Qualification Reference Number (QRN) is the qualification expiration date in "mmddyy" format (e.g. 55110-1234-042211 expires on April 22, 2011).

b. An asterisk (*) adjacent to the QRN denotes that the product was tested for and meets the etchback requirements.

c. An exclamation (!) adjacent to the QRN denotes qualification through Appendix B of MIL-PRF-55110. There is no qualification expiration date. See QML-31032 for detailed information about this company's capabilities.

d. A pound sign (#) adjacent to the QRN denotes that the qualification vehicle was built using foil lamination technology. The specimen was tested for and meets peel strength requirements.

Base Material:
AF - Aramid Fabric, Woven, Majority Polyfunctional Epoxy Resin
BF - Aramid Fabric, Nonwoven, Epoxy Resin
BI - Aramid Fabric, Nonwoven, Polyimide Resin
GB - Glass Base, Woven, Majority Polyfunctional Epoxy Resin, Hot Strength Retention
GC - Glass Base, Woven E, Reinforcement, Majority Cyanate Ester, Flame Resistant
GF - Glass Base, Woven, Majority Difunctional Epoxy Resin, Flame Resistant
GH - Glass Base, Woven, Majority Polyfunctional Epoxy Resin, Hot Strength Retention, Flame Resistant
GI - Glass Base, Woven, Polyimide Resin, Heat Resistant
GM - Glass Base, Woven, Triazine and/or Bismaleimide Modified Epoxy Resin, Flame Resistant
GR - Glass Base, Nonwoven, Polytetrafluoroethylene Resin, Flame Resistant
GX - Glass Base, Woven, Polytetrafluoroethylene Resin, Flame Resistant
GY - Glass Base, Woven, Polytetrafluoroethylene Resin, Flame Resistant, for Microwave Application
QI - Quartz Base, Woven, Polyimide Resin, Heat Resistant
SC - Glass Base, Woven S-2, Fiber, Majority Cyanate Ester, Flame Resistant

Part Configuration:

Listed by classification type and base material.

PART LISTINGS

SUPPLIER'S NAME (ADDRESS ON LAST PAGE)	QUALIFICATION REFERENCE NUMBER AND EXPIRATION DATE (MM/DD/YY)	SUPPLIER'S NAME (ADDRESS ON LAST PAGE)	QUALIFICATION REFERENCE NUMBER AND EXPIRATION DATE (MM/DD/YY)
AF TYPE 3		**BF TYPE 3**	
DDi Cleveland Corp.	55110-31032!*	Cosmotronic	55110-31032!*
Lockheed Martin Systems Integration	55110-31032!*	TTM Technologies (Stafford)	55110-31032!
TTM Technologies (Stafford)	55110-31032!	**BI TYPE 3**	
		Cosmotronic	55110-31032!*

PART LISTINGS

SUPPLIER'S NAME (ADDRESS ON LAST PAGE)	QUALIFICATION REFERENCE NUMBER AND EXPIRATION DATE (MM/DD/YY)
BI TYPE 3	
DDi Cleveland Corp.	55110-31032!*
Firan Technology Group	55110-31032!*
Lockheed Martin Systems Integration	55110-31032!
Sovereign Circuits, Inc.	55110-31032!*
TTM Technologies (Santa Clara)	55110-31032!*
TTM Technologies (Stafford)	55110-31032!*
GF TYPE 3	
A & C Electronics	55110-2235-052811*#
Accurate Circuit Engineering	55110-31032!*
Accurate Engineering Corp.	55110-2015-100510*#
American Standard Circuits	55110-31032!#
Amphenol Printed Circuits	55110-31032!*#
Aselsan Military Electronics Industries, Inc.	55110-2026-020411
Calumet Electronics Corp.	55110-31032!*
Cidav Printed Circuits Ltd.	55110-IL01-072411#
Circuit Connect, Inc.	55110-2982-101213*#
Circuit Express, Inc.	55110-2798-092013*#
Circuit-Tech, Inc.	55110-2532-102712#
Cirexx International, Inc.	55110-31032!*#
Cirtech, Inc.	55110-2142-053011*
Colonial Circuits, Inc.	55110-31032!*#
Compunetics, Inc.	55110-2698-111912*
Cosmotronic	55110-31032!*#
DDi Cleveland Corp.	55110-31032!#
DDi Denver Corp.	55110-31032!*#
DDi Global Corp. - Anaheim	55110-31032!*#
DDi Global Corp. - Sterling, VA	55110-31032!*
DDi Milpitas Corp.	55110-2131-021311*#
DDi North Jackson Corp.	55110-31032!*#
DDi Toronto	55110-31032!
Delta Circuits Technology, Inc.	55110-2782-032513*#
Dynaco Corp	55110-31032!*#
Dynamic & Proto Circuits, Inc.	55110-31032!
Electro Plate Circuitry, Inc.	55110-31032!*#
Electrotek Corp.	55110-31032!
Elreha Printed Circuits Corp.	55110-1378-101208*#
Endicott Interconnect Technologies, Inc.	55110-31032!*#
Firan Technology Group	55110-31032!*
Flexible Circuits, Inc.	55110-2883-070813*
Global Innovations Corp.	55110-31032!*#
Graphic Plc	55110-U101-082111
Graphic Research, Inc.	55110-2041-011111*#
Hamby Corp.	55110-31032*
Hans Brockstedt GmbH	55110-31032!*

SUPPLIER'S NAME (ADDRESS ON LAST PAGE)	QUALIFICATION REFERENCE NUMBER AND EXPIRATION DATE (MM/DD/YY)
GF TYPE 3	
Holaday Circuits, Inc.	55110-2855-062213*#
Hughes Circuits	55110-31032!
Hunter Technology	55110-2561-062612*#
IMI, Inc.	55110-2979-091413
Integrated Technology, Ltd. (ITL) Circuits	55110-2434-040411*#
Invotec Circuits Tamworth, Ltd.	55110-U099-041910#
ISU Petasys Corp.	55110-2268-081511*#
KCA Electronics, Inc.	55110-2182-061611*
L-3 Communications Corporation	55110-2326-101511*#
Lazer-Tech, Ltd.	55110-082060-011011*#
Lockheed Martin Systems Integration	55110-31032!*
Melta, Ltd.	55110-IL0110-041513#
Merix Corp.	55110-31032!*#
Metaplast Circuits, Ltd.	55110-2068-032711*
Micom Corp.	55110-31032!
Micropack, Ltd.	55110-2589-083112*#
Midwest Printed Circuits Services	55110-2743-021113*#
Moog Components Group Galax	55110-2640-111312#
Multicircuits, Inc.	55110-2344-121511*#
Multilayer Technology-JVB Electronics	55110-2086-031111*#
North Texas Circuit Board	55110-2059-021911*#
OK Print Corp.	55110-2355-042912
Ozark Circuits	55110-2393-012812*#
PCB Technologies	55110-IL0109-061212*#
Philway Products, Inc.	55110-31032!#
Pho-Tronics, Inc.	55110-2327-103111*#
Pioneer Circuits, Inc.	55110-31032*#
PNC, Inc.	55110-31032!#
Printca ApS	55110-2308-072811#
Pro-Tech Interconnect Solutions LLC	55110-2644-090212*#
Prototron Circuits Southwest, Inc.	55110-2657-092812*#
RJR Circuits, Inc.	55110-2545-070112*#
Rockwell Collins	55110-1764-081009*#
Sanmina-SCI, Owego	55110-2232-011512*#
Sanmina-SCI, San Jose	55110-31032!*#
Sierra Midwest, Inc.	55110-2039-062411#
Sierra Proto Express	55110-2949-101313*#
South Coast Circuits	55110-2211-062511*#
Speedy Circuits, Inc.	55110-31032!*#
Streamline Circuits	55110-2637-100712*#
Thales Nederland B.V.	55110-2110-051911#
TTM Technologies (Santa Ana)	55110-31032!*#
TTM Technologies (Santa Clara)	55110-31032!*#
TTM Technologies (Stafford)	55110-31032!*
U.S. Circuit, Inc.	55110-2384-051912*#

PART LISTINGS

SUPPLIER'S NAME (ADDRESS ON LAST PAGE)	QUALIFICATION REFERENCE NUMBER AND EXPIRATION DATE (MM/DD/YY)
GF TYPE 3	
Unicircuit, Inc.	55110-31032*
Universal Circuits, Inc.	55110-31032!*#
Valley Syncom Circuits	55110-2202-051911*#
Vermont Circuits, Inc.	55110-31032!*#
Waytec Electronics Corp.	55110-2582-100112*#
Westak of Oregon	55110-2224-053011*#
WR-ALC/MAIPL	55110-2641-100212*
W-Tek, Inc.	55110-2502-052712*#
GH TYPE 3	
Eltek, Ltd.	55110-IL02-071711
GI	
Calumet Electronics Corp.	55110-31032*#
GI TYPE 3	
Accurate Engineering Corp.	55110-2228-120211*#
Amphenol Printed Circuits	55110-31032!*#
Aselsan Military Electronics Industries, Inc.	55110-2027-020411
CIMULEC	55110-2756-051813#
Circuit Express, Inc.	55110-2049-122010*#
Circuit Express, Inc.	55110-2799-081613*#
Cirexx International, Inc.	55110-31032!*#
Cirtech, Inc.	55110-2796-050513*
Colonial Circuits, Inc.	55110-31032!*
Compunetics, Inc.	55110-2245-111912*
Cosmotronic	55110-31032!*
DDi Cleveland Corp.	55110-31032!*
DDi Denver Corp.	55110-31032!*#
DDi Global Corp. - Anaheim	55110-31032!*#
DDi Global Corp. - Sterling, VA	55110-31032!*
DDi Milpitas Corp.	55110-2192-032012*#
DDi North Jackson Corp.	55110-31032!*#
DDi Toronto	55110-31032!*
Dynaco Corp	55110-31032!*#
Dynamic & Proto Circuits, Inc.	55110-31032!
Electro Plate Circuitry, Inc.	55110-31032!*#
Electrotek Corp.	55110-31032!
Eltek, Ltd.	55110-IL0509-061113
Endicott Interconnect Technologies, Inc.	55110-31032!*#
Firan Technology Group	55110-31032!*
Flexible Circuits, Inc.	55110-2884-091613*
FTG Circuits, Inc.	55110-3047-102913*#
Global Innovations Corp.	55110-31032!*
Graphic Plc	55110-U100-032011
Graphic Research, Inc.	55110-2042-011611*#
Hamby Corp.	55110-31032*

SUPPLIER'S NAME (ADDRESS ON LAST PAGE)	QUALIFICATION REFERENCE NUMBER AND EXPIRATION DATE (MM/DD/YY)
GI TYPE 3	
Hans Brockstedt GmbH	55110-31032!*
Holaday Circuits, Inc.	55110-2856-062213*#
Hughes Circuits	55110-31032!
Hunter Technology	55110-2562-101912*#
Integrated Technology, Ltd. (ITL) Circuits	55110-2503-081912*#
Invotec Circuits Tamworth, Ltd.	55110-U103-043012*#
ISU Petasys Corp.	55110-2269-081511*#
Johns Hopkins University	55110-2998-092313
KCA Electronics, Inc.	55110-2183-061611*
L-3 Communications Corporation	55110-2476-040612*#
Lazer-Tech, Ltd.	55110-2503-090312*#
Lockheed Martin Systems Integration	55110-31032!*
Melta, Ltd.	55110-IL0210-102213#
Merix Corp.	55110-31032!#
Metaplast Circuits, Ltd.	55110-2067-032711*
Micom Corp.	55110-31032!*
Midwest Printed Circuits Services	55110-2043-091711*
Moog Components Group Galax	55110-2903-072713#
Multilayer Technology-JVB Electronics	55110-2087-053011*#
North Texas Circuit Board	55110-2058-021311*#
PCB Technologies	55110-IL03-052812*
Philway Products, Inc.	55110-31032!#
Pho-Tronics, Inc.	55110-2573-101512*#
Pioneer Circuits, Inc.	55110-31032*#
Printca ApS	55110-2427-032412#
Pro-Tech Interconnect Solutions LLC	55110-2564-021113*#
Prototron Circuits Southwest, Inc.	55110-2323-041312*
RJR Circuits, Inc.	55110-2546-070112*#
Rockwell Collins	55110-1763-081009*#
Sanmina-SCI, Owego	55110-2233-011512*#
Sanmina-SCI, San Jose	55110-31032!*#
Sierra Proto Express	55110-1916-082110*#
South Coast Circuits	55110-2210-062511*#
Speedy Circuits, Inc.	55110-31032!*#
Streamline Circuits	55110-2028-111510*#
Thales Nederland B.V.	55110-2094-031911#
TTM Technologies (Santa Ana)	55110-31032!*#
TTM Technologies (Santa Clara)	55110-31032!*#
TTM Technologies (Stafford)	55110-31032!*
Unicircuit, Inc.	55110-31032!*
Universal Circuits, Inc.	55110-1877-111310*#
Valley Syncom Circuits	55110-2459-040812*#
Westak of Oregon	55110-2859-051813*#
W-Tek, Inc.	55110-2127-032111*#

PART LISTINGS			
SUPPLIER'S NAME (ADDRESS ON LAST PAGE)	QUALIFICATION REFERENCE NUMBER AND EXPIRATION DATE (MM/DD/YY)	SUPPLIER'S NAME (ADDRESS ON LAST PAGE)	QUALIFICATION REFERENCE NUMBER AND EXPIRATION DATE (MM/DD/YY)
GM TYPE 3			
Amphenol Printed Circuits	55110-31032!		
Cosmotronic	55110-31032!*		
DDi Denver Corp.	55110-31032!*		
Firan Technology Group	55110-31032!*		
Philway Products, Inc.	55110-31032!#		
RJR Circuits, Inc.	55110-1906-061310*#		
Rockwell Collins	55110-1053-061408*#		
TTM Technologies (Stafford)	55110-31032!		
Universal Circuits, Inc.	55110-1878-111310*#		
GR TYPE 2			
Global Innovations Corp.	55110-31032!		
Graphic Research, Inc.	55110-2881-062113		
Speedy Circuits, Inc.	55110-31032!		
GX TYPE 3			
Firan Technology Group	55110-31032!		
GY TYPE 2			
Colonial Circuits, Inc.	55110-31032!		
Graphic Research, Inc.	55110-2880-062113		
Rockwell Collins	55110-2046-101610		
Speedy Circuits, Inc.	55110-31032!		
GY TYPE 3			
Electro Plate Circuitry, Inc.	55110-31032!*#		
SC TYPE 3			
TTM Technologies (Stafford)	55110-31032!		
With or Without Woven or Non-Woven E-Glass, Polytetrafluoroethylene (PTFE) Resin, Ceramic Filler TYPE 3			
Electro Plate Circuitry, Inc.	55110-31032!*#		
Woven Glass Reinforced, Hydrocarbon Resin with Ceramic Fill TYPE 2			
Sanmina-SCI, San Jose	55110-31032!		
Woven Glass Reinforced, Hydrocarbon Resin with Ceramic Fill TYPE 3			
Amphenol Printed Circuits	55110-31032!*		
Colonial Circuits, Inc.	55110-31032!*		
Cosmotronic	55110-31032!*		
Delta Circuits, Inc.	55110-2671-101513		
TTM Technologies (Santa Clara)	55110-31032!		
TTM Technologies (Stafford)	55110-31032!		

Manufacturer: A & C Electronics (CAGE Code: 65812)
Location: 18153 Napa Street, Northridge, CA 91325, US

Plants:
1. Plant: Same Address as Manufacturer

Manufacturer: Accurate Circuit Engineering (CAGE Code: 0MNN9)
Location: 3019 S. Kilson Drive, Santa Ana, CA 92707, US

Plants:
1. Plant: Same Address as Manufacturer

Manufacturer: Accurate Engineering Corp. (CAGE Code: 1W538)
Location: 8710 TelFair Avenue, Sun Valley, CA 91352-2530, US

Plants:
1. Plant: Same Address as Manufacturer

Manufacturer: American Standard Circuits (CAGE Code: 4AA34)
Location: RF Division, 475 Industrial Drive, West Chicago, IL 60185, US

Plants:
1. Plant: Same Address as Manufacturer

Manufacturer: Amphenol Printed Circuits (CAGE Code: 57034)
Location: 91 Northeastern Boulevard, Nashua, NH 03062, US

Plants:
1. Plant: Same Address as Manufacturer

Manufacturer: Aselsan Military Electronics Industries, Inc. (CAGE Code: T4238)
Location: P.O. Box 101, 06172 Yenimahalle, Ankara, Turkey

Plants:
1. Aselsan Military Electronics Industries, Inc., Macunkoy, Ankara, Turkey

Manufacturer: Calumet Electronics Corp. (CAGE Code: 65337)
Location: 25830 Depot Street, Calumet, MI 49913-1985, US

Plants:
1. Plant: Same Address as Manufacturer

Manufacturer: Cidav Printed Circuits Ltd. (CAGE Code: S7069)
Location: P.O. Box 10191, Naharia, 22001, Israel

Plants:
1. Plant: Same Address as Manufacturer

Manufacturer: CIMULEC (CAGE Code: 0YWU1)
Location: Z.I. Les Jonquieres, 57365 ENNERY, France

Plants:
1. Plant: Same Address as Manufacturer

Manufacturer: Circuit Connect, Inc. (CAGE Code: 3JDJ7)
Location: 4 State Street, Nashua, NH 03063, US

Plants:
1. Plant: Same Address as Manufacturer

Manufacturer: Circuit Express, Inc. (CAGE Code: 0SX42)
Location: Division of Advanced Circuits, Inc., 229 S. Clark Drive, Tempe, AZ 85281-3073, US

Plants:
1. Plant: Same Address as Manufacturer

Manufacturer: Circuit-Tech, Inc. (CAGE Code: L4387)
Location: 399 Denison Street, Markham, Ontario, Canada L3R 1B7

Plants:
1. Plant: Same Address as Manufacturer

Manufacturer: Cirexx International, Inc. (CAGE Code: 4MEG7)
Location: 791 Nuttman Street, Santa Clara, CA 95054, US

Manufacturer and Supplier Location Information

Manufacturer: Cirexx International, Inc. (CAGE Code: 4MEG7)
Location: 791 Nuttman Street, Santa Clara, CA 95054, US

Plants:
1. Plant: Same Address as Manufacturer

Manufacturer: Cirtech, Inc. (CAGE Code: 8K616)
Location: 250 E. Emerson Avenue, Orange, CA 92665, US

Plants:
1. Plant: Same Address as Manufacturer

Manufacturer: Colonial Circuits, Inc. (CAGE Code: 6T499)
Location: 1026 Warrentown Road, Fredericksburg, VA 22406-6200, US

Plants:
1. Plant: Same Address as Manufacturer

Manufacturer: Compunetics, Inc. (CAGE Code: 30598)
Location: 700 Seco Road, Monroeville, PA 15146, US

Plants:
1. Plant: Same Address as Manufacturer

Manufacturer: Cosmotronic, Inc. (CAGE Code: 63695)
Location: 16721 Noyes Avenue, Irvine, CA 92606-5176, US

Plants:
1. Plant: Same Address as Manufacturer

Manufacturer: DDi Cleveland Corp. (CAGE Code: 7Z463)
Location: 7 Ascot Parkway, Cuyahoga Falls, OH 44223, US

Plants:
1. Plant: Same Address as Manufacturer

Manufacturer: DDi Denver Corp. (CAGE Code: 75815)
Location: 10570 Bradford Road, Littleton, CO 80127-4211, US

Plants:
1. Plant: Same Address as Manufacturer

Manufacturer: DDi Global Corp. - Anaheim (CAGE Code: 0BSG1)
Location: 1220 N. Simon Circle, Anaheim, CA 92806, US

Plants:
1. Plant: Same Address as Manufacturer

Manufacturer: DDi Global Corp. - Sterling, VA (CAGE Code: 0K703)
Location: 1200 Severn Way, Dulles, VA 20166-8904, US

Plants:
1. Plant: Same Address as Manufacturer

Manufacturer: DDi Milpitas Corp. (CAGE Code: 0SFV5)
Location: 1831 Tarob Court, Milpitas, CA 95035-6825, US

Plants:
1. Plant: Same Address as Manufacturer

Manufacturer: DDi North Jackson Corp. (CAGE Code: 0GN71)
Location: P.O. Box 216, 12080 DeBartolo Drive, N. Jackson, OH 44451, US

Plants:
1. Plant: Same Address as Manufacturer

Manufacturer: DDi Toronto (CAGE Code: 3AF82)
Location: 8150 Sheppard Avenue East & 2020 Ellesmere, Scarborough, Ontario M1B 5K2, Canada

Plants:
1. Plant: Same Address as Manufacturer
2. 2020 Ellesmere Road, Scarborough, Ontario, Canada M1H 2Z8

Manufacturer: Delta Circuits Technology, Inc. (CAGE Code: 8U401)
Location: 16028 Arminta Street, Van Nuys, CA 91406-1808, US

Plants:
1. Plant: Same Address as Manufacturer

Manufacturer: Delta Circuits, Inc. (CAGE Code: 1KTH8)
Location: 26 Spielman Road, Fairfield, NJ 07004, US

Plants:
1. Plant: Same Address as Manufacturer

Manufacturer: Dynaco Corp. (CAGE Code: 61642)
Location: 1000 South Priest Drive, Tempe, AZ 85281-5238, US

Plants:
1. Plant: Same Address as Manufacturer

Manufacturer: Dynamic & Proto Circuits, Inc. (CAGE Code: 38898)
Location: 869 Barton Street, Stoney Creek, On L8E 5G6, Canada

Plants:
1. Plant: Same Address as Manufacturer

Manufacturer: Electro Plate Circuitry, Inc. (CAGE Code: 79616)
Location: 1430 Century Drive, Carrollton, TX 75006, US

Plants:
1. Plant: Same Address as Manufacturer

Manufacturer: Electrotek Corp. (CAGE Code: 66030)
Location: 7745 S. 10th Street, Oak Creek, WI 53154, US

Plants:
1. Plant: Same Address as Manufacturer

Manufacturer: Elreha Printed Circuits Corp. (CAGE Code: 59020)
Location: 2510 Terminal Drive, S., St. Petersburg, FL 33712-1669, US

Plants:
1. Plant: Same Address as Manufacturer

Manufacturer: Eltek, Ltd. (CAGE Code: S4451)
Location: P.O. Box 159, Sgoola Industrial Park, 49101 Petach-Tikva, Israel

Plants:
1. Plant: Same Address as Manufacturer

Manufacturer: Endicott Interconnect Technologies, Inc. (CAGE Code: 3ECL3)
Location: Dept. 0069/014-3, 1093 Clark Street, Endicott, NY 13760, US

Plants:
1. Plant: Same Address as Manufacturer

Manufacturer: Firan Technology Group (CAGE Code: L2665)
Location: 250 Finchdene Square, Scarborough, Ontario M1X 1A5, Canada

Plants:
1. Plant: Same Address as Manufacturer

Manufacturer: Flexible Circuits, Inc. (CAGE Code: 22928)
Location: 222 Valley Road, Warrington, PA 18976-2580, US

Plants:
1. Plant: Same Address as Manufacturer

Manufacturer: FTG Circuits, Inc. (CAGE Code: 30803)
Location: 20750 Marilla Street, Chatsworth, CA 91311, US

Plants:
1. Plant: Same Address as Manufacturer

Manufacturer: Global Innovations Corp. (CAGE Code: 04RV5)
Location: 901 Hensley Drive, Wylie, TX 75098-4909, US

Manufacturer: Global Innovations Corp. (CAGE Code: 04RV5)
Location: 901 Hensley Drive, Wylie, TX 75098-4909, US

Plants:
1. Plant: Same Address as Manufacturer

Manufacturer: Graphic Plc (CAGE Code: U4538)
Location: Lords Meadow Industrial Estate, Crediton, Devon, EX17 IHN, UK

Plants:
1. Plant: Same Address as Manufacturer

Manufacturer: Graphic Research, Inc. (CAGE Code: 5K529)
Location: 9334 Mason Avenue, Chatsworth, CA 91311-5201, US

Plants:
1. Plant: Same Address as Manufacturer

Manufacturer: Hamby Corporation (CAGE Code: 07284)
Location: 27704 Avenue Scott, Valencia, CA 91355, US

Plants:
1. Plant: Same Address as Manufacturer

Manufacturer: Hans Brockstedt GmbH (CAGE Code: C4831)
Location: Leiterplattenschnelldienst, Clara-Immerwahr-Strabe 7, 24145 Kiel, Germany

Plants:
1. Plant: Same Address as Manufacturer

Manufacturer: Holaday Circuits, Inc. (CAGE Code: 59554)
Location: 11126 Bren Road, W., Minnetonka, MN 55343, US

Plants:
1. Plant: Same Address as Manufacturer

Manufacturer: Hughes Circuits (CAGE Code: 1KXU6)
Location: 540 South Pacific Street, San Marcos, CA 92078-4056, US

Plants:
1. Plant: Same Address as Manufacturer

Manufacturer: Hunter Technology (CAGE Code: 55536)
Location: 2921 Corvin Drive, Santa Clara, CA 95051-0705, US

Plants:
1. Plant: Same Address as Manufacturer

Manufacturer: IMI, Inc. (CAGE Code: 78259)
Location: 140 Hilldale Avenue, Haverhill, MA 01832-3830, US

Plants:
1. Plant: Same Address as Manufacturer

Manufacturer: Integrated Technology, Ltd. (ITL) Circuits (CAGE Code: 38747)
Location: 90 Don Park Road, Markham, On L3R 1C4, Canada

Plants:
1. Plant: Same Address as Manufacturer

Manufacturer: Invotec Circuits Tamworth, Ltd. (CAGE Code: KF570)
Location: Hedging Lane, Dosthill, Tamworth, St B77 5HH, England

Plants:
1. Plant: Same Address as Manufacturer

Manufacturer: ISU Petasys Corp. (CAGE Code: 1WFH9)
Location: 12930 Bradley Avenue, Sylmar, CA 91342, US

Plants:
1. Plant: Same Address as Manufacturer

Manufacturer: Johns Hopkins University (CAGE Code: 88898)
Location: Applied Physics Laboratory (APL), 11100 Johns Hopkins Road, Laurel, MD 20723-6099, US

Manufacturer and Supplier Location Information

Manufacturer: Johns Hopkins University (CAGE Code: 88898)
Location: Applied Physics Laboratory (APL), 11100 Johns Hopkins Road, Laurel, MD 20723-6099, US

Plants:
1. Plant: Same Address as Manufacturer

Manufacturer: KCA Electronics, Inc. (CAGE Code: 1VUH8)
Location: 223 N. Crescent Way, Anaheim, CA 92801, US

Plants:
1. Plant: Same Address as Manufacturer

Manufacturer: L-3 Communications Corporation (CAGE Code: 62939)
Location: Electro Fab Division, 960 River Road, Croydon, PA 19021, US

Plants:
1. Plant: Same Address as Manufacturer

Manufacturer: Lazer-Tech, Ltd. (CAGE Code: 38748)
Location: 33 Milford Drive, Unit 1, Scarborough, Ontario, Canada M1B 2G6

Plants:
1. Plant: Same Address as Manufacturer

Manufacturer: Lockheed Martin Systems Integration (CAGE Code: 03640)
Location: 1801 State Route 17-C, Owego, NY 13827, US

Plants:
1. Plant: Same Address as Manufacturer

Manufacturer: Melta, Ltd. (CAGE Code: S8986)
Location: P.O. Box 609, 3 Haual Street, Nazareth Illit 17000, Israel

Plants:
1. Plant: Same Address as Manufacturer

Manufacturer: Merix Corp. (CAGE Code: 0MHG5)
Location: 355 Turtle Creek Court, San Jose, CA 95125-1316, US

Plants:
1. Plant: Same Address as Manufacturer

Manufacturer: Metaplast Circuits, Ltd. (CAGE Code: 3AD63)
Location: 180 Hymus Road, Scarborough, On M1L 2E1, Canada

Plants:
1. Plant: Same Address as Manufacturer

Manufacturer: Micom Corp. (CAGE Code: 34076)
Location: 475 NW Eighth Avenue, New Brighton, MN 55112, US

Plants:
1. Plant: Same Address as Manufacturer

Manufacturer: Micropack, Ltd. (CAGE Code: SAL28)
Location: Plot No. 16 Jigani Industrial Area, Anekal Taluk, Bangalore District 562 106, India

Plants:
1. Plant: Same Address as Manufacturer

Manufacturer: Midwest Printed Circuits Services (CAGE Code: 0YYS4)
Location: 1741 Circuit Drive, Round Lake Beach, IL 60073, US

Plants:
1. Plant: Same Address as Manufacturer

Manufacturer: Moog Components Group Galax (CAGE Code: 1VDA7)
Location: 115 Jack Guynn Drive, Galax, VA 24333, US

Plants:
1. Plant: Same Address as Manufacturer

Manufacturer: Multicircuits, Inc. (CAGE Code: 1BQS8)
Location: 2301 Universal Street, Oshkosh, WI 54904-9146, US

Manufacturer: Multicircuits, Inc. (CAGE Code: 1BQS8)
Location: 2301 Universal Street, Oshkosh, WI 54904-9146, US

Plants:
1. Plant: Same Address as Manufacturer

Manufacturer: Multilayer Technology-JVB Electronics (CAGE Code: 0JKV9)
Location: 3835 W. Conflans Road, Irving, TX 75061, US

Plants:
1. Plant: Same Address as Manufacturer

Manufacturer: North Texas Circuit Board (CAGE Code: 5S424)
Location: 1501 W. Shady Grove Road, Grand Prairie, TX 75050, US

Plants:
1. Plant: Same Address as Manufacturer

Manufacturer: OK Print Corp. (CAGE Code: SDR40)
Location: 3-21-18 Higashi - Koigakubo, Kokubunji-Shi, Tokyo 185-0014, Japan

Plants:
1. Plant: Same Address as Manufacturer

Manufacturer: Ozark Circuits (CAGE Code: 41796)
Location: 933 W. Chase Street, Springfield, MO 65803, US

Plants:
1. Plant: Same Address as Manufacturer

Manufacturer: PCB Technologies, Ltd. (CAGE Code: S5725)
Location: P.O. Box 631, Migdal, Haemek, 10556, Israel

Plants:
1. Plant: Same Address as Manufacturer

Manufacturer: Philway Products, Inc. (CAGE Code: 21971)
Location: 701 Virginia Avenue, Ashland, OH 44805, US

Plants:
1. Plant: Same Address as Manufacturer

Manufacturer: Pho-Tronics, Inc. (CAGE Code: 79243)
Location: 8701 West Bradley Road, Milwaukee, WI 53224-2817, US

Plants:
1. Plant: Same Address as Manufacturer

Manufacturer: Pioneer Circuits, Inc. (CAGE Code: 65723)
Location: 3000 S. Shannon Street, Santa Ana, CA 92704, US

Plants:
1. Plant: Same Address as Manufacturer

Manufacturer: PNC, Inc. (CAGE Code: 66766)
Location: 115 East Centre Street, Nutley, NJ 07110, US

Plants:
1. Plant: Same Address as Manufacturer

Manufacturer: Printca ApS (CAGE Code: R2180)
Location: Svendborgvej 3, 9220 AalBorg Oest, Denmark

Plants:
1. Plant: Same Address as Manufacturer

Manufacturer: Pro-Tech Interconnect Solutions LLC (CAGE Code: 3CP65)
Location: 4300 Peavey Road, Chaska, MN 55318, US

Plants:
1. Plant: Same Address as Manufacturer

Manufacturer: Prototron Circuits Southwest, Inc. (CAGE Code: 66108)
Location: 3760 East 43rd Place, Tucson, AZ 85713, US

Manufacturer and Supplier Location Information

Manufacturer: Prototron Circuits Southwest, Inc. (CAGE Code: 66108)
Location: 3760 East 43rd Place, Tucson, AZ 85713, US

Plants:
1. Plant: Same Address as Manufacturer

Manufacturer: RJR Circuits, Inc. (CAGE Code: 66525)
Location: 1830 South Bannock Street, Denver, CO 80223, US

Plants:
1. Plant: Same Address as Manufacturer

Manufacturer: Rockwell Collins (CAGE Code: 0EFD0)
Location: Division of Rockwell International, 460 Collins Road, N.E., Cedar Rapids, IA 52498-0001, US

Plants:
1. Plant: Same Address as Manufacturer

Manufacturer: Sanmina-SCI, Owego (CAGE Code: 4GZ84)
Location: 1200 Taylor Road, Owego, NY 13827, US

Plants:
1. Plant: Same Address as Manufacturer

Manufacturer: Sanmina-SCI, San Jose (CAGE Code: 3DR67)
Location: 2050 Bering Drive, San Jose, CA 95131, US

Plants:
1. Plant: Same Address as Manufacturer

Manufacturer: Sierra Midwest, Inc. (CAGE Code: 1XKL9)
Location: P.O. Box 578, 3100 Santa Fe Avenue, Chanute, KS 66720-0578, US

Plants:
1. Plant: Same Address as Manufacturer

Manufacturer: Sierra Proto Express (CAGE Code: 0ZHS4)
Location: 1108 W. Evelyn Avenue, Sunnyvale, CA 94086, US

Assemby Plants:
1. AssemblyPlant: Same Address as Manufacturer

Manufacturer: South Coast Circuits (CAGE Code: 3CXW3)
Location: 3506 W. Lake Center Drive, Suite A, Santa Ana, CA 92704, US

Plants:
1. Plant: Same Address as Manufacturer

Manufacturer: Speedy Circuits, Inc. (CAGE Code: 66982)
Location: 5331 McFadden Avenue, Huntington Beach, CA 92649-1204, US

Plants:
1. Plant: Same Address as Manufacturer

Manufacturer: Streamline Circuits (CAGE Code: 3WUY3)
Location: 1410 Martin Avenue, Santa Clara, CA 95050, US

Plants:
1. Plant: Same Address as Manufacturer

Manufacturer: Thales Nederland B.V. (CAGE Code: H0203)
Location: Department Bareboards & Substrates, Haaksbergerstraat 49, 7554RR Hengelo, The Netherlands

Plants:
1. Plant: Same Address as Manufacturer

Manufacturer: TTM Technologies (Santa Ana) (CAGE Code: 1WQ42)
Location: 2630 South Harbor Boulevard, Santa Ana, CA 92704, US

Plants:
1. Plant: Same Address as Manufacturer

Manufacturer: TTM Technologies (Santa Clara) (CAGE Code: 65916)
Location: Santa Clara Division, 400 Matthew Street, Santa Clara, CA 95050, US

Manufacturer and Supplier Location Information

Manufacturer: TTM Technologies (Santa Clara) (CAGE Code: 65916)
Location: Santa Clara Division, 400 Matthew Street, Santa Clara, CA 95050, US

Plants:
1. Plant: Same Address as Manufacturer

Manufacturer: TTM Technologies (Stafford) (CAGE Code: 5L706)
Location: P.O. Box 145, 4 Old Monson Road, Stafford, CT 06075, US

Plants:
1. Plant: Same Address as Manufacturer

Manufacturer: U.S. Circuit, Inc. (CAGE Code: 66483)
Location: 1526 Sterling Court, Escondido, CA 92029, US

Plants:
1. Plant: Same Address as Manufacturer

Manufacturer: Unicircuit, Inc. (CAGE Code: 66311)
Location: 8192 Southpark Lane, Littleton, CO 80120, US

Plants:
1. Plant: Same Address as Manufacturer

Manufacturer: Universal Circuits, Inc. (CAGE Code: 45032)
Location: 8860 Zackery Lane, Maple Grove, MN 55369, US

Plants:
1. Plant: Same Address as Manufacturer

Manufacturer: Valley Syncom Circuits (CAGE Code: 8W955)
Location: 24940 Avenue Tibbitts, Valencia, CA 91355-3426, US

Plants:
1. Plant: Same Address as Manufacturer

Manufacturer: Vermont Circuits, Inc. (CAGE Code: 65200)
Location: P.O. Box 1890, 76 Technology Dr., Brattleboro, VT 05302, US

Plants:
1. Plant: Same Address as Manufacturer

Manufacturer: Waytec Electronics Corp. (CAGE Code: 1ZJN7)
Location: P.O. Box 11765, Lynchburg, VA 24506-1765, US

Plants:
1. Plant: Same Address as Manufacturer

Manufacturer: Westak of Oregon (CAGE Code: 65745)
Location: 3941 24th Avenue, Forest Grove, OR 97116-2297, US

Plants:
1. Plant: Same Address as Manufacturer

Manufacturer: WR-ALC/MAIPL (CAGE Code: 0RCH2)
Location: Avionics Management Directorate Production Div., 380 2nd Street, Suite 104, Robins AFB, GA 31098-1638, US

Plants:
1. Plant: Same Address as Manufacturer

Manufacturer: W-Tek, Inc. (CAGE Code: 67370)
Location: 230 Irby Lane, Irving, TX 75061-7046, US

Plants:
1. Plant: Same Address as Manufacturer