

**Specification Details:**

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: 614-692-9508, e-mail: vqe.kp@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.

**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)

SUPPLIER'S NAME (ADDRESS ON LAST PAGE)

**AF TYPE 3**

TTM Technologies, Inc. (Stafford)

**BI TYPE 3**

Firan Technology Group Circuits  
FTG Circuits, Inc. - Chatsworth  
Sanmina-SCI (San Jose)  
TTM Technologies, Inc. (Stafford)

**GF TYPE 3**

AC Universal Circuits, LLC  
Accurate Circuit Engineering  
Accurate Engineering Inc.  
Advanced Circuits, Inc. (Chandler)  
American Standard Circuits  
Amphenol Printed Circuits  
Calumet Electronics Corp.  
Circuit-Tech Inc.

**GF TYPE 3**

Cirexx International, Inc.  
Cirtech, Inc.  
Compunetics Inc.  
Electro Plate Circuitry, Inc.  
Electrotek Corp.  
Firan Technology Group Circuits  
FTG Circuits Fredericksburg Inc.  
FTG Circuits, Inc. - Chatsworth  
Gorilla Circuits  
Holaday Circuits Inc. (San Marcos)  
Holaday Circuits, Inc.  
IMI, Inc.  
KCA Electronics, Inc  
Lockheed Martin Corporation Rotary and Mission Systems  
Lockheed Martin Corporation Rotary and Mission Systems  
Lone Star Circuits

## PART LISTINGS

SUPPLIER'S NAME (ADDRESS ON LAST PAGE)

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### GF TYPE 3

Metaplast Circuits, Ltd.  
Micropack Private Limited  
Midwest Printed Circuits Services  
Multicircuits, Inc.  
Murrietta Circuits, Inc.  
Pioneer Circuits, Inc.  
Printed Circuits, Inc  
Pro-Tech Interconnect Solutions LLC  
Prototron Circuits, Inc.  
Sanmina-SCI, San Jose  
Sierra Circuits, Inc.  
Summit Interconnect Toronto  
Thales Nederland B.V.  
TTM Technologies Toronto, Inc.  
TTM Technologies, Inc. (Forest Grove)  
TTM Technologies, Inc. (North Jackson)  
TTM Technologies, Inc. (Santa Ana)  
TTM Technologies, Inc. (Stafford)  
TTM Technologies, Inc. (Sterling)  
Unicircuit, Inc.  
US Circuit  
Westak of Oregon

### GI TYPE 3

AC Universal Circuits, LLC  
Accurate Engineering Inc.  
Advanced Circuits, Inc. (Chandler)  
American Standard Circuits  
Amphenol Printed Circuits  
Calumet Electronics Corp.  
Cirexx International, Inc.  
Cirtech, Inc.  
Electro Plate Circuitry, Inc.  
Electrotek Corp.  
Firan Technology Group Circuits  
FTG Circuits Fredericksburg Inc.  
FTG Circuits, Inc. - Chatsworth  
Gorilla Circuits  
Holaday Circuits Inc. (San Marcos)  
Holaday Circuits, Inc.  
KCA Electronics, Inc  
Lockheed Martin Corporation Rotary and Mission Systems  
Lockheed Martin Corporation Rotary and Mission Systems  
Lone Star Circuits  
Micropack Private Limited  
Midwest Printed Circuits Services

### GI TYPE 3

Multicircuits, Inc.  
Pioneer Circuits, Inc.  
Printed Circuits, Inc  
Pro-Tech Interconnect Solutions LLC  
Sanmina-SCI, San Jose  
Sierra Circuits, Inc.  
Summit Interconnect Toronto  
Thales Nederland B.V.  
TTM Technologies Toronto, Inc.  
TTM Technologies, Inc. (Forest Grove)  
TTM Technologies, Inc. (North Jackson)  
TTM Technologies, Inc. (Santa Ana)  
TTM Technologies, Inc. (Stafford)  
TTM Technologies, Inc. (Sterling)  
Unicircuit, Inc.  
US Circuit  
Westak of Oregon

### GM TYPE 3

Firan Technology Group Circuits  
TTM Technologies, Inc. (Stafford)

### GR TYPE 2

Lone Star Circuits

### GY TYPE 2

Lone Star Circuits

### GY TYPE 3

Electro Plate Circuitry, Inc.

### PPE/Woven Glass TYPE 3

TTM Technologies, Inc. (Sterling)

### With or Without Woven or Non-Woven E-Glass, Polytetrafluoroethylene (PTFE) Resin, Ceramic Filler TYPE 3

Electro Plate Circuitry, Inc.  
TTM Technologies, Inc. (Stafford)

### Woven E-Glass Reinforced, Hydrocarbon Resin TYPE 3

Advanced Circuits, Inc. (Chandler)

### Woven Glass Reinforced, Hydrocarbon Resin with Ceramic Fill TYPE 2

TTM Technologies, Inc. (North Jackson)

### Woven Glass Reinforced, Hydrocarbon Resin with Ceramic Fill TYPE 3

AC Universal Circuits, LLC  
American Standard Circuits  
Amphenol Printed Circuits  
Compunetics Inc.  
Micropack Private Limited  
Sanmina-SCI (San Jose)

PART LISTINGS

SUPPLIER'S NAME (ADDRESS ON LAST PAGE)

SUPPLIER'S NAME (ADDRESS ON LAST PAGE)

**Woven Glass Reinforced, Hydrocarbon Resin with Ceramic Fill TYPE 3**

TTM Technologies, Inc. (Stafford)

TTM Technologies, Inc. (Sterling)

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**Manufacturer and Supplier Location Information**

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**Manufacturer: AC Universal Circuits, LLC (CAGE Code: 45032)**

Location: 8860 Zachary Lane North, Maple Grove, MN 55369-4524, 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 Inc. (CAGE Code: 1W538)**

Location: 8710 Telfair Ave, Sun Valley, CA 91352, USA

**Manufacturer: Advanced Circuits, Inc. (Chandler) (CAGE Code: 6RJS1)**

Location: 6615 W. Boston St., Chandler, AZ 85226, 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: Calumet Electronics Corp. (CAGE Code: 65337)**

Location: 25830 Depot Street, Calumet, MI 49913-1985, US

Plants:

1. Plant: Same Address as Manufacturer

**Manufacturer: Circuit-Tech Inc. (CAGE Code: L4387)**

Location: 399 Denison Street, Markham,, ON L3R 1B7, Canada

Plants:

1. Plant: Same Address as Manufacturer

**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 Ave., Orange, CA 92865-3303,

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: Electro Plate Circuitry, Inc. (CAGE Code: 79616)**

Location: 1430 Century Drive, Carrollton, TX 75006, US

Plants:

1. Plant: Same Address as Manufacturer

**Manufacturer: Firan Technology Group (CAGE Code: L2665)**

Location: 250 Finchdene Square, Scarborough, M1X 1A5, Ontario, Canada

Plants:

1. Plant: Same Address as Manufacturer

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**Manufacturer and Supplier Location Information**

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**Manufacturer: FTG Circuits Fredericksburg Inc. (CAGE Code: 6T499)**

Location: 1026 Warrentown Road, Fredericksburg, VA 22406-6200, US

Plants:

1. Plant: Same Address as Manufacturer

**Manufacturer: FTG Circuits Inc. (Haverhill) (CAGE Code: 78259)**

Location: 140 Hilledale Avenue, Haverhill, MA 01832-3830, US

Plants:

1. Plant: Same Address as Manufacturer

**Manufacturer: FTG Circuits Minnetonka, LLC (CAGE Code: 59554)**

Location: 11126 Bren Road West, Minnetonka, MN 55343, US

Plants:

1. Plant: Same Address as Manufacturer

**Manufacturer: FTG Circuits, Inc. - Chatsworth (CAGE Code: 30803)**

Location: 20750 Marilla Street, Chatsworth, CA 91311, US

Plants:

1. Plant: Same Address as Manufacturer

**Manufacturer: Gorilla Circuits (CAGE Code: 3C7D2)**

Location: 1145 Old Oakland Rd., San Jose, CA 95112, US

Plants:

1. Plant: Same Address as Manufacturer

**Manufacturer: Hamby Corporation (CAGE Code: 07284)**

Location: 27704 Avenue Scott, Valencia, CA 91355-1218, US

Plants:

1. Plant: Same Address as Manufacturer

**Manufacturer: Hughes Circuits, Inc. (CAGE Code: 1KXU6)**

Location: 540 S. Pacific Street, San Marcos, CA 92078-4056, 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: Lockheed Martin Corporation Rotary and Mission Systems  
Lockheed Martin Corporation Rotary and Mission Systems (CAGE Code: 03640)**

Location: 1801 State Route 17-C, Owego, NY 13827, US

Plants:

1. Plant: Same Address as Manufacturer

**Manufacturer: Lone Star Circuits (CAGE Code: 04RV5)**

Location: 901 Hensley Drive, Wylie, TX 75098-4909, US

Plants:

1. Plant: Same Address as Manufacturer

**Manufacturer: Metaplast Circuits, Ltd. (CAGE Code: 3AD63)**

Location: 180 Hymus Road, Scarborough, M1L 2E1, Ontario, Canada

Plants:

1. Plant: Same Address as Manufacturer

**Manufacturer: Micropack Private Limited (CAGE Code: 0436Y)**

Location: Plot No. 16 Jigani Industrial Area, Anekal Taluk, Bangalore District 560105, India

Plants:

1. Plant: Same Address as Manufacturer

**Manufacturer: Midwest Printed Circuit Services (CAGE Code: 0YYS4)**

Location: 1741 Circuit Drive, Round Lake Beach, IL 60073, US

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**Manufacturer and Supplier Location Information**

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**Manufacturer: Midwest Printed Circuit Services (CAGE Code: 0YYS4)**

Location: 1741 Circuit Drive, Round Lake Beach, IL 60073, US

Plants:

1. Plant: Same Address as Manufacturer

**Manufacturer: Multicircuits, Inc. (CAGE Code: 1BQS8)**

Location: 2301 Universal Street, Oshkosh, WI 54904-9146, US

Plants:

1. Plant: Same Address as Manufacturer

**Manufacturer: Murrietta Circuits, Inc. (CAGE Code: 0EJD7)**

Location: 5000 E. Landon Drive, Anaheim, CA 92807, US

Plants:

1. Plant: Same Address as Manufacturer

**Manufacturer: Pioneer Circuits, Inc. (CAGE Code: 65723)**

Location: 3000 S. Shannon Street, Santa Ana, CA 92704-6321, US

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, Inc. (CAGE Code: 66108)**

Location: 3760 East 43rd Place, Tucson, AZ 85713, 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 Circuits, Inc. (CAGE Code: 0ZHS4)**

Location: 1108 West Evelyn Avenue, Sunnyvale, CA 94086, US

Plants:

1. Plant: Same Address as Manufacturer

**Manufacturer: Sierra Electrotek, LLC (CAGE Code: 66030)**

Location: 7745 S. 10th Street, Oak Creek, WI 53154, US

Plants:

1. Plant: Same Address as Manufacturer

**Manufacturer: Summit Interconnect Toronto (CAGE Code: 38747)**

Location: 90 Don Park Road, Markham, L3R 1C4, Ontario, Canada

Plants:

1. Plant: Same Address as Manufacturer

**Manufacturer: Thales Nederland B.V. (CAGE Code: H0203)**

Location: Department Bareboards and Substrates, Haaksbergerstraat 49, 7554RR Hengelo, The Netherlands

Plants:

1. Plant: Same Address as Manufacturer

**Manufacturer: TTM Technologies Toronto, Inc. (CAGE Code: 3AF82)**

Location: Toronto Division, 8150 Sheppard Avenue East, Scarborough, Ontario M1B 5K2, Canada

Plants:

1. Plant: Same Address as Manufacturer

**Manufacturer: TTM Technologies, Inc. (Forest Grove) (CAGE Code: 01KV9)**

Location: 1521 Poplar Lane, Forest Grove, OR 97116-2033,

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**Manufacturer and Supplier Location Information**

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**Manufacturer: TTM Technologies, Inc. (Forest Grove) (CAGE Code: 01KV9)**

Location: 1521 Poplar Lane, Forest Grove, OR 97116-2033,

Plants:

1. Plant: Same Address as Manufacturer

**Manufacturer: TTM Technologies, Inc. (North Jackson) (CAGE Code: 0GN71)**

Location: North Jackson Division, P.O. Box 216, 12080 DeBartolo Drive, North Jackson, OH 44451, US

Plants:

1. Plant: Same Address as Manufacturer

**Manufacturer: TTM Technologies, Inc. (Santa Ana) (CAGE Code: 1WQ42)**

Location: Santa Ana Division, 2630 South Harbor Boulevard, Santa Ana, CA 92704, US

Plants:

1. Plant: Same Address as Manufacturer

**Manufacturer: TTM Technologies, Inc. (Stafford) (CAGE Code: 5L706)**

Location: Stafford Division, P.O. Box 145, 4 Old Monson Road, Stafford, CT 06075, US

Plants:

1. Plant: Same Address as Manufacturer

**Manufacturer: TTM Technologies, Inc. (Sterling) (CAGE Code: 0K703)**

Location: Sterling Division, 1200 Severn Way, Sterling, VA 20166-8904, 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: US Circuit (CAGE Code: 66483)**

Location: 2071 Wineridge Place, Escondido, CA 92029,

Plants:

1. Plant: Same Address as Manufacturer

**Manufacturer: Westak of Oregon (CAGE Code: 65745)**

Location: 3941 24th Avenue, Forest Grove, OR 97116, US

Plants:

1. Plant: Same Address as Manufacturer