

**Specification Details:**

Specification: MIL-P-50884  
 Title: Printed Wiring, Flexible and Rigid-Flex  
 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:**

DSCC Office of Primary Involvement: Electronic Devices Team, DSCC-VQE  
 Primary DSCC-VQ Contact: 614-692-0627, e-mail: vqe.ls@dla.mil  
 Secondary DSCC-VQ Contact: 614-692-0631, e-mail: vqe.bw@dla.mil

**Notes:**

Effective 28 February 1999, MIL-P-50884 has been declared "Inactive for New Design". For new design, use MIL-PRF-31032. This is applicable on all acquisitions to which MIL-P-50884 is applied.

Extent of Qualification Paragraph 4.5.3 of MIL-P-50884 extends qualification for a particular type to cover all conductor patterns of that type produced. Qualification of type 4 products shall be extended to cover all other types. Qualification of type 3 products shall be extended to cover types 2 and 1. Qualification of type 2 products shall be extended to cover type 1. Qualification of types 1 and 5 shall apply only to that type. Qualification of any type shall be extended to cover the approved type with a stiffener or solder mask.

- a. The last six digits of the Qualification Reference Number (QRN) is the qualification expiration date in "mmddy" format (e.g., 50884-1234-042211 expires on April 22, 2011).
- b. An asterisk (\*) adjacent to the QRN denotes the product was tested for and meets the etchback requirements.
- c. An exclamation (!) adjacent to the QRN denotes qualification through Appendix B of MIL-P-50884. 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.
- e. Adhesiveless products tested and manufactured with metal-clad dielectric are covered under slash sheet(s) other than /1 through /4 of IPC-4204.

**Part Configuration:**

Listed by classification type and either adhesive or adhesiveless construction.

**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)
<b>TYPE 2 ADHESIVELESS</b>		<b>TYPE 4 ADHESIVELESS</b>	
All Flex, Inc.	(Class A only); 50884-2335-012912	Cosmotronic	50884-31032!*
Cirexx International, Inc.	55110-31032!*	Dynaco Corp	50884-31032*#
<b>TYPE 2 WITH ADHESIVES</b>		Eltek, Ltd.	50884-IL002-110709
All Flex, Inc.	50884-2602-080712	Flexible Circuits, Inc.	50884-2504-091612*
Cirexx International, Inc.	55110-31032!*	FTG Circuits, Inc.	50884-2283-043012*
RACAAR Circuit Industries, Inc.	50884-2498-052012	GPV Printca A/S	50884-2439-012712
<b>TYPE 4 ADHESIVELESS</b>		Graphic Plc	50884-U031-051912#
Accurate Engineering Corp.	50884-2071-031411*#	Graphic Research, Inc.	50884-1797-112009*
Amphenol Printed Circuits	50884-1871-032010*#	Hamby Corporation	50884-31032!*
Basic Electronics, Inc.	50884-1726-061309*	Hans Brockstedt GmbH	50884-31032!*
CIMULEC	50884-F1653-122109	Johns Hopkins University	50884-1733-021410
Cirtech, Inc.	50884-2141-090811*	KCA Electronics, Inc.	50884-1777-112809*
Coretec-Cleveland	50884-31032!*	Lenthor Engineering, Inc.	50884-2083-051311*
		Lockheed Martin Systems Integration	50884-31032!*

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)
---	---	---	---

**TYPE 4 ADHESIVELESS**

Melita, Ltd.	50884-IL02-092610
Molex, Inc.	50884-1734-060810*
North Texas Circuit Board	50884-1645-010310*
PCB Technologies	50884-IL002-082709*
Pioneer Circuits, Inc.	50884-1821-022110*
Printed Circuits, Inc.	50884-31032!*
Sovereign Circuits, Inc.	50884-31032!*
Speedy Circuits	50884-50884-31032!*#
Teledyne Printed Circuit Technology	50884-2406-031312* (Class A only)
Time Sensitive Circuits	50884-31032!* (Class A Only)
TTM Technologies (Santa Clara, CA)	50884-31032!*
TTM Technologies (Stafford, CT)	50884-31032!*
Vulcan Flex Circuit Corporation	50884-2382-010712*

**TYPE 4 WITH ADHESIVES**

Amphenol Printed Circuits	50884-1427-120708*#
Basic Electronics, Inc.	50884-1725-061309*
Colonial Circuits, Inc.	50884-31032!*
Coretec-Cleveland	50884-31032!*
Cosmotronic	50884-31032!*
Dynaco Corp	50884-31032*#
Flexible Circuits, Inc.	50884-2157-040211*
Graphic Research, Inc.	50884-2169-051611*
Hamby Corporation	50884-31032!*#
Hans Brockstedt GmbH	50884-31032!*
Johns Hopkins University	50884-1733-021410
Lockheed Martin Systems Integration	50884-31032!*
Midwest Pined Circuit Services	50884-2425-020412*
Pioneer Circuits, Inc.	50884-1820-022110*
Printed Circuits, Inc.	50884-31032!*
Sovereign Circuits, Inc.	50884-31032!*
Strataflex Corp.	50884-31032!*
Teledyne Printed Circuit Technology	50884-2405-031312* (Class A only)
TTM Technologies (Santa Clara, CA)	50884-31032!*
TTM Technologies (Stafford, CT)	50884-31032!*
Vulcan Flex Circuit Corporation	50884-2288-082811*

**TYPES 1 & 5 ONLY WITH ADHESIVES**

LaBarge Electronics, Inc.	50884-1766-120609
---------------------------	-------------------

---

## Manufacturer and Supplier Location Information

---

**Manufacturer: Accurate Engineering Corp. (CAGE Code: 1W538)**

Location: 8710 Telfair Avenue, Sun Valley, CA 91352, US

Plant Location: Same Address as Manufacturer

**Manufacturer: All Flex, Inc. (CAGE Code: 0ZGB2)**

Location: All Flex Acquisitions LLC dba All Flex, Inc., 1705 Cannon Lane, Northfield, MN 55057, US

Plant Location: Same Address as Manufacturer

**Manufacturer: Amphenol Printed Circuits (CAGE Code: 57034)**

Location: 91 Northeastern Boulevard, Nashua, NH 03062, US

Plant Location: Same Address as Manufacturer

**Manufacturer: Basic Electronics, Inc. (CAGE Code: 57357)**

Location: 11371 Monarch Street, Garden Grove, CA 92841, US

Plant Location: Same Address as Manufacturer

**Manufacturer: CIMULEC (CAGE Code: 0YWU1)**

Location: Zone Industrielle Les Jonquires, F-57365 Ennery, France

Plant Location: Same Address as Manufacturer

**Manufacturer: Cirexx International, Inc. (CAGE Code: 4MEG7)**

Location: 791 Nuttman Street, Santa Clara, CA 95054, US

Plant Location: Same Address as Manufacturer

**Manufacturer: Cirtech, Inc. (CAGE Code: 8K616)**

Location: 250 East Emerson Avenue, Orange, CA 92665, US

Plant Location: Same Address as Manufacturer

**Manufacturer: Colonial Circuits, Inc. (CAGE Code: 6T499)**

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

Plant Location: Same Address as Manufacturer

**Manufacturer: Coretec-Cleveland (CAGE Code: 7Z463)**

Location: 7 Ascot Parkway, Cuyahoga Falls, OH 44223, US

Plant Location: Same Address as Manufacturer

**Manufacturer: Cosmotronic (CAGE Code: 63695)**

Location: 16721 Noyes Avenue, Irvine, CA 92606-5176, US

Plant Location: Same Address as Manufacturer

**Manufacturer: Dynaco Corp (CAGE Code: 61642)**

Location: 1000 South Priest Drive, Tempe, AZ 85281-5238, US

Plant Location: Same Address as Manufacturer

**Manufacturer: Eltek, Ltd. (CAGE Code: S4451)**

Location: P.O. Box 159, Sgoola Industrial Park, 49101 Petach - Tikva, Israel

Plant Location: Same Address as Manufacturer

**Manufacturer: Flexible Circuits, Inc. (CAGE Code: 22928)**

Location: 222 Valley Road, Warrington, PA 18976-2580, US

Plant Location: Same Address as Manufacturer

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

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

Plant Location: Same Address as Manufacturer

---

## Manufacturer and Supplier Location Information

---

**Manufacturer: GPV Printca A/S (CAGE Code: R2180)**

Location: Svendborgvej 3, 9220 Aalborg Oest, Denmark

Plant Location: Same Address as Manufacturer

**Manufacturer: Graphic Plc (CAGE Code: U4538)**

Location: Lords Meadow Industrial Estate, Crediton, Devon, EX17 1HN, UK

Plant Location: Same Address as Manufacturer

**Manufacturer: Graphic Research, Inc. (CAGE Code: 5K529)**

Location: 9334 Mason Avenue, Chatsworth, CA 91311-5201, US

Plant Location: Same Address as Manufacturer

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

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

Plant Location: Same Address as Manufacturer

**Manufacturer: Hans Brockstedt GmbH (CAGE Code: C4831)**

Location: Lieterplattenschnelldienst, Clara-Immerwahr-Strabe 7, 24145 Kiel, Germany

Plant Location: 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

Plant Location: Same Address as Manufacturer

**Manufacturer: KCA Electronics, Inc. (CAGE Code: 1VUH8)**

Location: 223 N. Crescent Way, Anaheim, CA 92801, US

Plant Location: Same Address as Manufacturer

**Manufacturer: LaBarge Electronics, Inc. (CAGE Code: 16275)**

Location: 1505 Maiden Lane, Joplin, MO 64802, US

Plant Location: Same Address as Manufacturer

**Manufacturer: Lenthor Engineering, Inc. (CAGE Code: 09ZX2)**

Location: 1506 Gladding Court, Milpitas, CA 95035-6814, US

Plant Location: Same Address as Manufacturer

**Manufacturer: Lockheed Martin Systems Integration (CAGE Code: 03640)**

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

Plant Location: Same Address as Manufacturer

**Manufacturer: Melta, Ltd. (CAGE Code: S8986)**

Location: P.O. Box 609, 3 Haul Street, Nazareth, Illit 17000, Israel

Plant Location: Same Address as Manufacturer

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

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

Plant Location: Same Address as Manufacturer

**Manufacturer: Molex, Inc. (CAGE Code: 58852)**

Location: 155 Eaton Avenue, St. Paul, MN 55107-1602, US

Plant Location: Same Address as Manufacturer

**Manufacturer: North Texas Circuit Board (CAGE Code: 5S424)**

Location: 1501 W. Shady Grove Road, Grand Prairie, TX 75050, US

Plant Location: Same Address as Manufacturer

---

**Manufacturer and Supplier Location Information**

---

**Manufacturer: PCB Technologies (CAGE Code: S5725)**

Location: P.O. Box 631, Migdal Haemek, 10556, Israel

Plant Location: Same Address as Manufacturer

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

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

Plant Location: Same Address as Manufacturer

**Manufacturer: Printed Circuits, Inc. (CAGE Code: 65114)**

Location: 1200 West 96th Street, Bloomington, MN 55431-2606, US

Plant Location: Same Address as Manufacturer

**Manufacturer: RACAAR Circuit Industries, Inc. (CAGE Code: 58521)**

Location: 9225-F Alabama Avenue, Chatsworth, CA 91311, US

Plant Location: Same Address as Manufacturer

**Manufacturer: Sovereign Circuits, Inc. (CAGE Code: 0GN71)**

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

Plant Location: Same Address as Manufacturer

**Manufacturer: Speedy Circuits (CAGE Code: 66982)**

Location: 5331 McFadden Avenue, Huntington Beach, CA 92649-1204, US

Plant Location: Same Address as Manufacturer

**Manufacturer: Strataflex Corp. (CAGE Code: 65337)**

Location: 11 Dohne Avenue, Toronto, M4B 1Y7, Ontario, Canada

Plant Location: Same Address as Manufacturer

**Manufacturer: Teledyne Printed Circuit Technology (CAGE Code: 22958)**

Location: 110 Lowell Road, Hudson, NH 03051, US

Plant Location: Same Address as Manufacturer

**Manufacturer: Time Sensitive Circuits (CAGE Code: 0BX48)**

Location: 2 Industrial Way, Amesbury, MA 01913, US

Plant Location: Same Address as Manufacturer

**Manufacturer: TTM Technologies (Santa Clara, CA) (CAGE Code: 65916)**

Location: Santa Clara Division, 400 Mathew Street, Santa Clara, CA 95050, US

Plant Location: Same Address as Manufacturer

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

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

Plant Location: Same Address as Manufacturer

**Manufacturer: Vulcan Flex Circuit Corporation (CAGE Code: 4CHZ1)**

Location: 2 Industrial Drive, Hudson, NH 03051-3913, US

Plant Location: Same Address as Manufacturer