



QUALIFICATIONS VALIDATED  
EVERY TWO YEARS

QPL-50884-55  
18-Feb-04  
SUPERSEDING  
QPL-50884-54  
27-Oct-03

QUALIFIED PRODUCTS LIST  
OF  
PRODUCTS QUALIFIED UNDER MILITARY SPECIFICATION  
MIL-P-50884  
PRINTED WIRING BOARD, FLEXIBLE AND RIGID-FLEX,  
GENERAL SPECIFICATION FOR

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.

This list has been prepared for use by or for the Government in the acquisition of Printed Wiring, Flexible and Rigid Flex, to the performance requirements of Specification MIL-P-50884. 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 of a product does not release the supplier from compliance with the specification requirements.

THE ACTIVITY RESPONSIBLE FOR THIS QPL IS THE DEFENSE SUPPLY CENTER COLUMBUS (DSCC-VQ), COLUMBUS, OH 43216-5000, telephone (614) 692-0617.

**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.

**NOTES:**

- a. The qualification expiration date is the last six digits of the QRN (e.g. mm/dd/yy).
- b. An asterisk (\*) adjacent to the QRN denotes the product was tested for and meets the etchback requirements.
- c. A plus (+) adjacent to the QRN denotes that the product tested is manufactured with a flexible metal-clad dielectric covered under a slash sheet(s) other than /1 through /4 of IPC-FC-241. The procuring activity must contact the respective QPL manufacturer to insure that the material used in the manufacturer's process meets their drawing and purchase order requirements. The manufacturer shall be able to provide a Notification of Qualification letter(s) and other official QPL status letters which specify the alternate slash sheet(s) of IPC-FC-241 which may be used for military production.
- d. An exclamation (!) adjacent to the QRN denotes compliance to Appendix B of MIL-P-50884. There is no qualification expiration date. See QML-31032 for detailed information about this company's capabilities.

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</b>		Cirtech	50884-168-110505*+
Advanced Circuit Technology, Inc.	50884-127-020805	Cosmotronic Corp.	50884-056-063004*+
All Flex, Inc.	50884-119-063005	Delphi Connection Systems	50884-541-081906*+
Flexible Technology, Ltd.	50884-U029-102306	Dynaco Corp.	50884-761-010907*+
Futura Circuits Corp.	50884-051-052104	Eltek, Ltd.	50884-IL002-051606*+
Multi-Finline Electronix, Inc.	50884-103-061005	Flexible Circuits, Inc. (Warrington, PA)	50884-743-100306*+
Tyco Printed Circuits Group (Santa Clara)	50884-383-012806	Flex-Link Products, Inc.	50884-061-042704*+
<b>TYPE 4 ADHESIVELESS</b>		Graphic PLC	50884-U028-012206*+
Accurate Engineering Corp.	50884-153-011005*+	Graphic Research, Inc.	50884-684-092206*+
Advanced Circuit Technology	50884-558-062006*+	Johns Hopkins University	50884-521-050506*+
Century Circuits & Electronics, Inc.	50884-511-061706*+	KCA Electronics, Inc.	50884-495-073106*+
CIMULEC	50884-216-051306*+	Lockheed Martin Systems Integration	50884-31032!*+
		Minco Products Company	50884-346-061105*+

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Multi-Plate Circuits, Inc.	50884-237-160905*+		
P.C.B., Ltd.	50884-IL003-082706*+		
Parlex Corp.	50884-516-081506*+		
Pioneer Circuits, Inc.	50884-848-020907*+		
Printca A/S	50884-313-070105*+		
Printed Circuits, Inc.	50884-31032!*+		
Rigiflex Technology, Inc.	50884-293-092405*+		
Ruwel-Werke/Werk Schoeller	50884-Z086-040405*+		
Sovereign Circuits, Inc.	50884-31032!*+		
Speedy Circuits	50884-044-070604*+		
Starflex, Inc.	50884-063-042704*+		
Teledyne Electronic Technologies	50884-355-120505*+		
Tyco Printed Circuit Group (Santa Clara)	50884-178-050105*+		
Tyco Printed Circuits Group (Austin)	50884-31032!*+		
Tyco Printed Circuits Group (Stafford)	50884-31032!*+		

**TYPE 4 WITH ADHESIVES**

Basic Electronics, Inc.	50884-364-031406*
Colonial Circuits, Inc.	50884-557-081906*
Cosmotronic Corp.	50884-084-063004*
Delphi Connection Systems	50884-540-060206*
Dyconex AG	50884-109-011105
Dynaco Corp.	50884-230-062405*
Flex Technology, Inc.	50884-054-112904*
Flexible Circuits, Inc. (Warrington, PA)	50884-045-080304*
Flex-Link Products, Inc.	50884-060-042704*
Graphic PLC	50884-076-122704*
Hamby Corporation	50884-133-072704*
Hans Brockstedt GmbH	50884-31032!*+
iFlex, Inc.	50884-049-070604*
Lockheed Martin Systems Integration	50884-31032!*
Minco Products Company	50884-236-061105*
Parlex Corp.	50884-156-031604*
Pioneer Circuits, Inc.	50884-847-020907*
Proto Circuit, Inc.	50884-31032!*
Starflex, Inc.	50884-062-042704*
Teledyne Electronic Technologies	50884-311-091705*
Tyco Printed Circuit Group (Stafford)	50884-31032!*
Tyco Printed Circuits Group (Austin)	50884-31032!*

**TYPES 1 & 5 ONLY**

LaBarge Electronics, Inc.	50884-710-101506
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## PART II

The products listed herein are reciprocal based on the NATO Standardization Agreement (STANAG) 4093 or International Standardization Agreements. The foreign-made products listed in Part II of this QPL have been certified by the authorized inspectorate of the foreign government and by the manufacturer, to be manufactured, tested and qualified in conformance with the applicable foreign specification identified with each product. The products listed in Part II are generally suitable for the function applications ascribed to the U.S.-specified products listed in Part I of the QPL; however, the functional performance limits, reliability and other design characteristics of the products listed in Part II may differ somewhat from those of the U.S.-specified products listed in Part I of the QPL. User agencies, industrial equipment designers, and manufacturers are wholly responsible for examining and evaluating the applicable foreign specifications, design data and product qualification test data to determine the technical suitability of the functional performance characteristics of those products for use in components and equipment specified under U.S. Department of Defense procurement contracts. Products listed in Part II of this QPL should not be selected for use in equipment or systems that are beyond the prototype design and development phase.

NATIONAL DEVICE DESIGNATION	TEST REPORT/ REFERENCE NUMBER	NATIONAL QPL	SUPPLIER'S NAME (ADDRESS ON LAST PAGE)
TYPE 4	FTB 003/01 Pt. 2	BS-9764-9765-9766	Flexible Technology, Ltd.

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## Manufacturer and Supplier Location Information

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

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

Plant Location: Same Address as Manufacturer

**Manufacturer: Advanced Circuit Technology (CAGE Code: 57034)**

Location: 118 Northeastern Boulevard, Nashua, NH 03062-0547, US

Plant Location: Same Address as Manufacturer

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

Location: 1705 Cannon Lane, Northfield, MN 55057, 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: Century Circuits & Electronics, Inc. (CAGE Code: 58852)**

Location: 155 Eaton Street, St. Paul, MN 55107, US

Plant Location: Same Address as Manufacturer

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

Location: Zone Industrielle Des Jonquires, F-57365 Ennery, Franch

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: Cosmotronic Corp. (CAGE Code: 63695)**

Location: 16721 Noyes Avenue, Irvine, CA 92714-5176, US

Plant Location: Same Address as Manufacturer

**Manufacturer: Delphi Connection Systems (CAGE Code: 53669)**

Location: 17150 Von Karman Avenue, Irvine, CA 92614-9998, US

Plant Locations:

1. Same Address as Manufacturer
2. 14532 Blvd. Pacifico, Tijuana, Mexico

**Manufacturer: Delta Circuit Technology (CAGE Code: 8U401)**

Location: 16028 Arminta Street, Van Nuys, CA 91342, US

Plant Location: Same Address as Manufacturer

**Manufacturer: Dyconex AG (CAGE Code: 053N4)**

Location: Grindelstrasse 40, CH-8303, Bassersdorf, Switzerland

Plant Location: Same Address as Manufacturer

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## Manufacturer and Supplier Location Information

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**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: Flex Technology, Inc. (CAGE Code: 66013)**

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

Plant Location: Same Address as Manufacturer

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

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

Plant Location: Same Address as Manufacturer

**Manufacturer: Flexible Technology, Ltd. (CAGE Code: 0HHP1)**

Location: Townhead, Rothsay, Isle of Bute PA20 9JH, United Kingdom

Plant Location: Same Address as Manufacturer

**Manufacturer: Flex-Link Products, Inc. (CAGE Code: 6Z867)**

Location: 449 Park Avenue, San Fernando, CA 91340, US

Plant Location: Same Address as Manufacturer

**Manufacturer: Futura Circuits Corp. (CAGE Code: 0CA49)**

Location: 11950 28th Street, N., St. Petersburg, FL 33716, US

Plant Location: Same Address as Manufacturer

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

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

Plant Location: Same Address as Manufacturer

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

Location: 9334 Mason Avenue, Chatsworth, CA 91311-9998, 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: Lieterplattenschneiddienst, Kieler Strabe 120, 24119 Kronshagen/Kiel, Germany

Plant Location: Same Address as Manufacturer

**Manufacturer: iFlex, Inc. (CAGE Code: 61185)**

Location: 15101 Minnetonka Industrial Road, Minnetonka, MN 55435, US

Plant Location: Same Address as Manufacturer

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## Manufacturer and Supplier Location Information

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**Manufacturer: Johns Hopkins University (CAGE Code: 88898)**

Location: Applied Physics Laboratory, John 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 64802-1210, 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: Minco Products Company (CAGE Code: 09359)**

Location: 7300 Commerce Lane, Minneapolis, MN 55432-3177, US

Plant Location: Same Address as Manufacturer

**Manufacturer: Multi-Fineline Electronix, Inc. (CAGE Code: 43181)**

Location: 1301 N. Dynamics Street, Anaheim, CA 92806-1901, US

Plant Location: Same Address as Manufacturer

**Manufacturer: Multi-Plate Circuits, Inc. (CAGE Code: 65340)**

Location: 2362 Lu Field Road, Dallas, TX 75229-9998, US

Plant Location: Same Address as Manufacturer

**Manufacturer: P.C.B., Ltd. (CAGE Code: S5725)**

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

Plant Location: Same Address as Manufacturer

**Manufacturer: Parlex Corp. (CAGE Code: 18377)**

Location: One Parlex Way, Methuen, MA 01844-4699, US

Plant Location: Same Address as Manufacturer

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

Location: 3010 E. Shannon Street, Santa Ana, CA 92704-6387, US

Plant Location: Same Address as Manufacturer

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

Location: Svendborgvej 3, Aalborg, OS Denmark

Plant Location: Same Address as Manufacturer

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

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

Plant Location: Same Address as Manufacturer

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## Manufacturer and Supplier Location Information

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**Manufacturer: Proto Circuit, Inc. (CAGE Code: 7Z463)**

Location: 7 Ascot Parkway, Cuyahoga Falls, OH 44223, 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: Rigiflex Technology, Inc. (CAGE Code: 0XB9)**

Location: 1166 N. Grove Street, Anaheim, CA 92806, US

Plant Location: Same Address as Manufacturer

**Manufacturer: Ruwel-Werke/Werk Schoeller (CAGE Code: C2877)**

Location: Marburger Strasse 65, D-35083 Wetter/Hassen, Germany

Plant Location: Same Address as Manufacturer

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

Location: P.O. Box 216, North Jackson, OH 44451-0216, US

Plant Location: Same Address as Manufacturer

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

Location: Division of PJC Technologies, Inc., 5332 Commercial Drive, Huntington Beach, CA 92649-1252, US

Plant Location: Same Address as Manufacturer

**Manufacturer: Starflex, Inc. (CAGE Code: 07EU8)**

Location: 52 Meadowcroft Street, Lowell, MA 01852, US

Plant Location: Same Address as Manufacturer

**Manufacturer: Teledyne Electronic Technologies (CAGE Code: 22958)**

Location: P.O. Box 68, 110 Lowell Road, Hudson, NH 03051-0068, US

Plant Location: Same Address as Manufacturer

**Manufacturer: Tyco Printed Circuits Group (Austin) (CAGE Code: 1EHD4)**

Location: 12501 Research Boulevard, Module 1, Austin, TX 78759-2220, US

Plant Location: Same Address as Manufacturer

**Manufacturer: Tyco Printed Circuits Group (Santa Clara) (CAGE Code: 65916)**

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

Plant Location: Same Address as Manufacturer

**Manufacturer: Tyco Printed Circuits Group (Stafford) (CAGE Code: 5L706)**

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

Plant Location: Same Address as Manufacturer