

QUALIFIED PRODUCTS LIST
 OF
 PRODUCTS QUALIFIED UNDER MILITARY SPECIFICATION

MIL-PRF-20

CAPACITOR, FIXED, CERAMIC-DIELECTRIC (TEMPERATURE COMPENSATING),

ESTABLISHED AND NON-ESTABLISHED RELIABILITY

GENERAL SPECIFICATION FOR

This list has been prepared for use by or for the Government in the acquisition of products covered by subject specification and such listing of a product is not intended to and does not connote endorsement of the product by the Department of Defense. All products listed herein have been qualified under the requirements for the product 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.

NOTES: An asterisk (*) adjacent to the product listing indicates that qualified parts listed on the QPL are available through distributors authorized by the manufacturer in accordance with Military Standard MIL-STD-790. Names and addresses of the distributors are listed in the back of this QPL. These lists are being furnished merely as an aid in identifying authorized sources of ER parts and the responsibility for complying with contractual provisions requiring use of such parts rests with the user of such parts. Such lists have been compiled from information furnished by the manufacturers of ER parts prior to release of this QPL for printing. Inclusion on, or omission from, the list of a particular distributor cannot be relied upon as a guarantee of a distributor's status since the information upon which the list is based may not have been complete and since authorized distributors are subject to change by the manufacturer at any time. Inclusion of a firm on such lists is not, under any circumstance, to be considered an indorsement of such firm or its products by the Department of Defense.

GOVERNMENT DESIGNATION	MANUFACTURER'S DESIGNATION OR TYPE NUMBER	TEST OR QUALIFICATION REFERENCE	SPECIFICATION SHEET	MANUFACTURER'S NAME (ADDRESS ON LAST PAGE)
CC05 All cap. tols., chars. CG, CH, CJ, CK, CX, all cap. values, 50, 100, and 200 volts.	MR05-CC05 MR05-CC-5	20-1088-80	/35	AVX Corp. (1, 2)
CC05 All cap. tols., chars. CG, CH, CJ, CK, CX, all cap. values, 50, 100, and 200 volts.	C052G	20-1102-73	/35	Kemet Electronics Corp.
CC05 All cap. tols., chars. CG, CH, CJ, CK, CX, all cap. values, 50, 100, and 200 volts.	C052G	20-488-88	/35	Kemet Electronics Corp.
CCR05* All cap. tols., chars. CG, CH, CJ, CK, CX, all cap. values, 50, 100 and 200 volts, with and without standoffs, life failure rates M, P, R, and S.	MR05-CCR05 MR-55	20-1088-80 20-395-88 39014-28-96	/35	AVX Corp. (1, 2)
CCR05* All cap. tols., chars. CG, CH, CJ, CK, CX, all cap. values, 50, 100 and 200 volts, with and without standoffs, life failure rates M, P, R and S.	C052G C056G	20-1102-73 20-389-88	/35	Kemet Electronics Corp.

GOVERNMENT DESIGNATION	MANUFACTURER'S DESIGNATION OR TYPE NUMBER	TEST OR QUALIFICATION REFERENCE	SPECIFI- CATION SHEET	MANUFACTURER'S NAME (ADDRESS ON LAST PAGE)
CC06 All cap. tols., char. CG, all cap. values, 50, 100, and 200 volts.	MR06-CC06	20-553-86	/36	AVX Corp. (1, 2)
CC06 All cap. tols., char. CG, all cap. values, 50, 100, and 200 volts.	C062G C065	20-1102-73	/36	Kemet Electronics Corp.
CC06 All cap. tols., char. CG, all cap. values, 50, 100, and 200 volts.	C062G	20-489-88	/36	Kemet Electronics Corp.
CCR06* All cap. tols., char. CG, all cap. values, 50, 100, and 200 volts, with and without standoffs, life failure rates M, P, R and S.	HRM06 MR-66 MR06-CCR06	20-1089-80 20-396-88 39014-29-96	/36	AVX Corp. (1, 2)
CCR06* All cap. tols., char. CG, all cap. values, 50, 100, and 200 volts, with and without standoffs, life failure rates M, P, R and S.	C062G C065 C066G	20-1102-73 20-390-88	/36	Kemet Electronics Corp.
CC07 All cap. tols., char. CG, all cap. values, 50, 100, and 200 volts.	MR07-CC07	20-141-74 20-93-96 20-083-97	/37	AVX Corp. (1, 2)
CC07 All cap. tols., char. CG, all cap. values, 50, 100, and 200 volts.	C512G	20-1103-73	/37	Kemet Electronics Corp.
CCR07* All cap. tols., char. CG, all cap. values, 50, 100, and 200 volts, life failure rates M, P, R, and S.	MR07-CCR07	20-141-74 20-93-96	/37	AVX Corp. (1, 2)
CCR07* All cap. tols., char. CG, values, 50, 100, 200 volts, life failure rates M, P, R and S.	C512G	20-1103-73	/37	Kemet Electronics Corp.
CC08 All cap. tols., char. CG, all cap. values, 50, 100, and 200 volts, life failure rates M, P, R, and S.	MR08-CC08	20-142-74 20-083-97	/38	AVX Corp. (2)
CC08 All cap. tols., char. CG, all cap. values, 50, 100, and 200 volts.	C522G	20-1103-73	/38	Kemet Electronics Corp.
CCR08* All cap. tols., char. CG, all cap. values, 50, 100, and 200 volts, life failure rates M, P, R, and S.	MR08-CCR08	20-142-74	/38	AVX Corp. (2)
CCR08* All cap. tols., char. CG, all cap. values, 50, 100, and 200 volts, life failure rates M, P, R, and S.	C522G	20-1103-73	/38	Kemet Electronics Corp.
CC09 All cap. tols., chars. CG, CH, CJ, CK, CX, all cap. values, 50, 100 and 200 volts.	MR04-CC09	20-733-85 20-94-96	/35	AVX Corp. (1, 2)
CCR09* All cap tols., char. CG, CH, CJ, CK, CX, all cap. values, 50, 100 and 200 volts, life failure rates M, P, R, and S.	MR04-CCR09	39014-733-85 20-94-96	/35	AVX Corp. (2)

GOVERNMENT DESIGNATION	MANUFACTURER'S DESIGNATION OR TYPE NUMBER	TEST OR QUALIFICATION REFERENCE	SPECIFI- CATION SHEET	MANUFACTURER'S NAME (ADDRESS ON LAST PAGE)
CC20 All cap. tols., temp. coef. tols., and cap. values in zero and neg. temp. coef thru 12 pF in pos. temp. coefs.	301-10	20-1-60	/1	Tusonix, Inc.
CC22 All cap. tols., temp. coef. tols., cap. values, and temp. coefs.	331	20-50-61	/3	Tusonix, Inc.
CC27 All cap. tols. temp. coef. tols., cap. values and temp. coef, except 82 pF and above in S temp coef.	332	20-2-62	/6	Tusonix, Inc.
CC30 All cap. tols., temp. coef. tols. and cap. values as follows: Thru 27 pF in pos.; thru 47 pF in zero; and all cap. values in the neg. temp. coefs.	308-10	20-7-60	/7	Tusonix, Inc.
CC50 All cap. values cap. tols., zero and all neg. temp. coefs., and temp. coefs. tols.	831	20-1140-80	/16	Tusonix, Inc.
CC51 All cap. tols., temp. coef. tols. and cap. values as follows: 12 thru 30 pF in zero temp. coefs.; 12 thru 43 pF in H, L, P, R, and S, temp. coefs., 12 thru 68 pF in T and U temp. coefs.	811	20-1141-80	/17	Tusonix, Inc.
CC52 All cap. values, cap. tols., zero and all neg. temp. coefs., and all temp. coef. tols.	811	20-1141-80	/18	Tusonix, Inc.
CC53 All cap. values cap. tols., zero and all neg. temp. coefs., and temp. coef. tols.	821	20-1141-80	/19	Tusonix, Inc.
CC75 1 pF thru 9.1 pF, C and D cap. tols., chars. CH, CJ, CK, CX, 200 volts; 10 pF thru 18 pF, G and J cap. tols., char. CH, 200 volts; 20 pF thru 680 pF, F, G, and J cap. tols., char. CG, 50, 100 and 200 volts.	MA10-CC75	20-143-74	/27	AVX Corp. (2)
CC75 All cap. tols. 1pF and greater, chars. CG, CH, CJ, CK and CX, all cap. values, 50, 100, and 200 volts.	C114G	20-1104-73	/27	Kemet Electronics Corp.
CC75 All cap. tols., chars. CG and CH, all cap. values, 50, 100, and 200 volts.	C114G	20-490-88	/27	Kemet Electronics Corp.
CCR75* 1 pF thru 9.1 pF, C and D cap. tols., chars. CH, CJ, CK and CX 200 volts; 10 pF thru 18 pF, G and J cap. tols., char. CH, 200 volts; 20 pF thru 680 pF, F, G, and J cap. tols., char. CG, 50, 100, and 200 volts, life failure rates M, P, R, and S.	MA10-CCR75	20-143-74	/27	AVX Corp. (2)
CCR75* All cap. tols. 1pF and greater, chars. CG, CH, CJ, CK and CX, all cap. values, 50, 100, and 200 volts, life failure rates M, P, R, and S.	C114G	20-1104-73	/27	Kemet Electronics Corp.

GOVERNMENT DESIGNATION	MANUFACTURER'S DESIGNATION OR TYPE NUMBER	TEST OR QUALIFICATION REFERENCE	SPECIFI- CATION SHEET	MANUFACTURER'S NAME (ADDRESS ON LAST PAGE)
CC76 All cap. tols., char. CG, all cap. values, 50, 100, and 200 volts.	MA20-CC76	20-143-74	/28	AVX Corp. (2)
CC76 All cap. tols., chars. CG and CH, all cap. values, 50, 100, and 200 volts.	Cl24G	20-1104-73 20-491-88	/28	Kemet Electronics Corp.
CCR76* All cap. tols., char. CG, all cap. values, 50, 100, and 200 volts, life failure rates M, P, R, and S.	MA20-CCR76	20-143-74	/28	AVX Corp. (2)
CCR76* All cap. tols., char. CG, all cap. values, 50, 100, and 200 volts, life failure rates M, P, R and S.	Cl24G	20-1104-73	/28	Kemet Electronics Corp.
CC77 All cap. tols., char. CG, all cap. values, 50, 100, and 200 volts.	MA40-CC77	20-143-74	/29	AVX Corp. (2)
CC77 All cap. tols., char. CG, all cap. values, 50, 100, and 200 volts.	Cl92G	20-1104-73 20-490-88	/29	Kemet Electronics Corp.
CCR77* All cap. tols., char. CG, all cap. values, 50, 100, and 200 volts, life failure rates M, P, R and S.	MA40-CCR77	20-143-74	/29	AVX Corp. (2)
CCR77* All cap. tols., char. CG, all cap. values, 50, 100, and 200 volts, life failure rates M, P, R and S.	Cl92G	20-1104-73	/29	Kemet Electronics Corp.
CC78 All cap. tols., char. CG, all cap. values, 50, 100, and 200 volts.	MA50-CC78	20-143-74	/30	AVX Corp. (2)
CC78 All cap. tols., char. CG, all cap. values, 50, 100, and 200 volts.	C202G	20-1105-73	/30	Kemet Electronics Corp.
CCR78* All cap. tols., char. CG, all cap. values, 50, 100, and 200 volts, life failure rates M, P, R and S.	MA50-CCR78	20-143-74	/30	AVX Corp. (2)
CCR78* All cap. tols., char. CG, all cap. values, 50, 100, and 200 volts, life failure rates M, P, R and S.	C202G	20-1105-73	/30	Kemet Electronics Corp.
CC79 All cap. tols., char. CG, all cap. values, 50, 100, and 200 volts.	MA60-CC79	20-144-74	/31	AVX Corp. (2)
CC79 All cap. tols., char. CG, all cap. values, 50, 100, and 200 volts.	C222G	20-1105-73	/31	Kemet Electronics Corp.
CCR79* All cap. tols., char. CG, all cap. values, 50, 100, and 200 volts, life failure rates M, P, R and S.	MA60-CCR79	20-144-74	/31	AVX Corp. (2)
CCR79* All cap. tols., char. CG, all cap. values, 50, 100, and 200 volts, life failure rates M, P, R and S.	C222G	20-1105-73	/31	Kemet Electronics Corp.

MANUFACTURER'S NAME, ADDRESS AND PLANT	CAGE CODE
AVX Corporation 17th Avenue South Myrtle Beach, SC 29577 Plants: 2. AVX Avio Excelente, SA de C.V. Area Riverena APDO Post 1709-D, Cd Juarez, Chihuahua, C.P. 32310 Mexico 4. 8021 Highway 501 West Conway, SC 29526	04222
Kemet Electronics Corporation P.O. Box 5928 Greenville, SC 29606 Plant: Periferico Alianza y Jose Arresse #10 Matamoros, Mexico	31433
Tusonix, Inc. 7741 North Business Park Drive Tucson, AZ 85743 Plant: Calzada De Los Nogales 298 Nogales, Sonora, Mexico	59660

AUTHORIZED ER DISTRIBUTORS (Category A unless otherwise specified):

MANUFACTURER: AVX Corporation	AVX Corporation
17th Avenue South	3900 Electronics Drive
Myrtle Beach, SC 29577	Raleigh, NC 27604-1698

*NS - (NON-STOCKING: NORMALLY DOES NOT STOCK PARTS IN QUANTITY)

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Advacom, Inc. 26250 Euclid Avenue, Suite 525 Euclid, OH 44132		Capstone 25 Upton Drive Wilmington, MA 01887	*
Advacom, Inc. 30 Chapin Road, Bldg. 1209 Pine Brook, NJ 07058		Capstone 18640 Lake Drive E. Chanhassen, MN 55317	
Advacom, Inc. 2258 Keuka Business Park Penn Yan, NY 14527		Capstone 5230 Green's Dairy Road Raleigh, NC 27604	*
Advacom, Inc. 5620 West Road McKean, PA 16426	*	Capstone 4 East Stow Road, Suite 12 Marlton, NJ 08053	*
Advacom, Inc. 10071 Sanmeyer Lane Philadelphia, PA 19116	*	Capstone 9500 S.W. Nimbus Drive Beaverton, OR 97008	*
Advacom, Inc. 100 Sagamore Hill Road Pittsburgh, PA 15239-2982	*	Capstone 3220 Commander Drive Carrollton, TX 75006	*
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California Capacitor 1579 Centre Pointe Drive Milpitas, CA 95035-6834		Future Electronics 4636 E. University Drive, Suite 245 Phoenix, AZ 85034	*
Capstone 6 Cromwell Street, Suite 100 Irvine, CA 92718	*	Future Electronics 27489 W. Agoura Road, Suite 300 Agoura Hills, CA 91301	*
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Future Electronics - Canada 106 King Edward Winnipeg, Manitoba R3H 0N8	*	Future Electronics 6716 Alexander Bell Drive, Suite 220 Columbia, MD 21046	*
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Future Electronics North Creek Corporate Center 19102 North Creek Parkway, Suite 118 Bothell, WA 98011	*	Hamilton Hallmark 1010 Commerce Way Paso Robles, CA 93446
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		Hamilton Hallmark 800 Saginaw Road Redwood City, CA

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Rocklin, CA 95677

Hamilton Hallmark
5516 Rio Vista Drive
Clearwater, FL 34620

Hamilton Hallmark
4545 Viewridge Avenue
San Diego, CA 92123

Hamilton Hallmark
3350 N.W. 53rd Street, Suite 105-107
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Hamilton Hallmark
2105 Lundy Avenue
San Jose, CA 95131

Hamilton Hallmark
2100 N.W. 62nd Street
Ft. Lauderdale, FL 33310

Hamilton Hallmark
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Sunnyvale, CA 94086-4018

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Hialeah, FL 33010

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1382 Bell Avenue
Tustin, CA 92680

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1575 Baymeadows Way
Jacksonville, FL 32256

Hamilton Hallmark
21150 Califa Street
Woodland Hills, CA 91327

Hamilton Hallmark
8545 126th Avenue North
Largo, FL 34643

Hamilton Hallmark
8610 Commerce Court
Burnaby, B.C., V5A 4N6 Canada

Hamilton Hallmark
6101 Lake Eleanor Drive
Orlando, FL 32809

Hamilton Hallmark
151 Superior Boulevard, Unit 1-6
Mississauga, Ontario L5T 2L1 Canada

Hamilton Hallmark
2900 Cratway Drive
Pompano Beach, FL 33069

Hamilton Hallmark
190 Colonnade Road
Nepean, Ontario K2E 7J5 Canada

Hamilton Hallmark
13750 Reptron Boulevard
Tampa, FL

Hamilton Hallmark
7575 Transcanada Highway, Suite 600
Ville St. Laurent, Quebec H4T 1V6 Canada

Hamilton Hallmark
7079 University Boulevard
Winter Park, FL 32792

Hamilton Hallmark
725 Wooten Road, Suite 28
Colorado Springs, CO 80915

Hamilton Hallmark
3425 Corporate Way, Suites G & A
Duluth, GA 30136

Hamilton Hallmark
12503 E. Euclid Avenue, Suite 20
Englewood, CO 80111

Hamilton Hallmark
3030 Salt Creek Lane, Suite 300
Arlington Heights, IL 60005

Hamilton Hallmark
1201 Oak Street
Lakewood, CO 80215

Hamilton Hallmark
1315 Paramount Parkway
Batavia, IL 60510

Hamilton Hallmark
1200 W. 120th Avenue
Westminster, CO 80234

Hamilton Hallmark
1000 Remington
Bolingbrook, IL 60440

Hamilton Hallmark
1157 Highland Avenue, Suite 207
Cheshire, CT 06410

Hamilton Hallmark
1602 Newton Drive
Champaign, IL 61821

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Hamilton Hallmark
1675 Delancy Road
Gurnee, IL 60031

Hamilton Hallmark
750 N. Maple Road
Saline, MI 48176

Hamilton Hallmark
902 S. Second
Marshall, IL 62441

Hamilton Hallmark
9401 James Avenue S., Suite 140
Bloomington, MN 55431

Hamilton Hallmark
620 Stetson Avenue
St. Charles, IL 60174

Hamilton Hallmark
3783 Rider Trail, S.
Earth City, MO 63045

Hamilton Hallmark
Highway 46, Door R6
Batesville, IN 47006

Hamilton Hallmark
2100 W. Broad Street
Elizabethtown, NC 28337

Hamilton Hallmark
655 W. Carmel Drive, Suite 160
Carmel, IN 46032

Hamilton Hallmark
U.S. Route 97
Elm City, NC 27822

Hamilton Hallmark
1010 West Chestnut
Chanute, KS 66720

Hamilton Hallmark
5234 Green's Dairy Road
Raleigh, NC 27604

Hamilton Hallmark
400 N. Rogers Road
Olathe, KS 66062

Hamilton Hallmark
Coles Road at Route 42
Blackwood, NJ 08057

Hamilton Hallmark
9200 Indian Creek Parkway
Overland Park, KS 66210

Hamilton Hallmark
121 Whillendale Drive
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Hamilton Hallmark
1847-G Mercer Road
Lexington, KY 45011

Hamilton Hallmark
10 Lanidex Plaza West
Parsippany, NJ 07054

Hamilton Hallmark
12 Channel Street
Boston, MA 02111

Hamilton Hallmark
415 Hamburg Turnpike
Wayne, NJ 07470

Hamilton Hallmark
10-D Centennial Drive
Peabody, MA 01960

Hamilton Hallmark
185 Monmouth Parkway
W. Long Beach, NJ 07764

Hamilton Hallmark
500 Arsenal Street
Watertown, MA 02172

Hamilton Hallmark
2601 Wyoming Boulevard, NE
Albuquerque, NM 87109

Hamilton Hallmark
7134 Columbia Gateway Circle, Suite 100
Columbia, MD 21046

Hamilton Hallmark
390 Rabro Drive
Hauppauge, NY 11788

Hamilton Hallmark
1746 O'Rourke Boulevard
Gaylord, MI 49735

Hamilton Hallmark
1057 E. Henrietta Road
Rochester, NY 14623

Hamilton Hallmark
44191 Plymouth Oaks Blvd., Suite 1300
Plymouth, MI 48170

Hamilton Hallmark
2060 Townline Road
Rochester, NY 14623

MANUFACTURER: AVX Corporation (Continued)

Hamilton Hallmark
7760 Washington Village Drive
Dayton, OH 45459

Hamilton Hallmark
2909 Avenue F, East Gate
Arlington, TX 76005

Hamilton Hallmark
1151 Mason Morrow Road
Lebanon, OH 45036

Hamilton Hallmark
12211 Technology Boulevard
Austin, TX 78727

Hamilton Hallmark
200 E. Bluegrass Drive
Norwalk, OH 44857

Hamilton Hallmark
3505 Boca Chica Boulevard, #201
Brownsville, TX 78521

Hamilton Hallmark
30775 Bainbridge Road
Solon, OH 44139

Hamilton Hallmark
11420 Pagemill Drive
Dallas, TX 75243

Hamilton Hallmark
777 Dearborn Park Lane, Suite L
Worthington, OH 43085

Hamilton Hallmark
11-A Founders Boulevard
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Hamilton Hallmark
12206 E. 51st Street, Suite 103
Tulsa, OK 74146

Hamilton Hallmark
10500 Richmond Avenue, Suite 112
Houston, TX 77042

Hamilton Hallmark
7101 Supra Drive
Albany, OR 97321

Hamilton Hallmark
3115 Skyline Circle North
Irving, TX 75038

Hamilton Hallmark
9750 S.W. Nimbus Avenue
Beaverton, OR 97005

Hamilton Hallmark
601 Jeffery Way
Round Rock, TX 78664

Hamilton Hallmark
959 Terry Street, MS 39-40
Eugene, OR 97402

Hamilton Hallmark
1100 E. 6600 S., Suite 120
Salt Lake City, UT 84121

Hamilton Hallmark
6th Street at Burns Crossing
Altoona, PA 16603

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2550 Decker Lake Boulevard
Salt Lake City, UT 84119

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5150 Campus Drive
Plymouth Drive, PA 19462

Hamilton Hallmark
Route 606, Seminole Trail
Charlottesville, VA 22901

Hamilton Hallmark
Sumneytown Pike
Springhouse, PA 19477

Hamilton Hallmark
8214 154th Avenue
Redmond, WA 98052

Hamilton Hallmark
44 Horn Mill Road
York, PA

Hamilton Hallmark
Spokane Industrial Park, Bldg. 13
Spokane, WA 99216

Hamilton Hallmark
URB Mariolgoa
Munoz Maria Avenue S-1
Caguas, PR 00725

Hamilton Hallmark
8310 Excelsior
Madison, WI 53717

Hamilton Hallmark
Bldg. 1, Industrial Park
Lewisburg, TN 37091

Hamilton Hallmark
8855 N. 55th Street
Milwaukee, WI 53223

MANUFACTURER: AVX Corporation (Continued)

Hamilton Hallmark
8200 W. Tower Avenue
Milwaukee, WI 53223

Kent Electronics, Inc.
9104 Guilford Road
Columbia, MD 21046

Hamilton Hallmark
2440 S. 179th Street
New Berlin, WI 53146

Kent Electronics, Inc.
953 Westgate Drive
St. Paul, MN 55114

Hamilton Hallmark
1300 N. Airport Road
Phillips, WI 54555

Kent Electronics, Inc.
2725 Mill Brook Road, Suite 123
Raleigh, NC 27604

Kent Electronics, Inc.
4900-D Corporate Drive
Huntsville, AL 35805

Kent Electronics, Inc.
55 U.S. Highway 46, Unit 401
P.O. Box 677
Pine Brook, NJ 07058

Kent Electronics, Inc.
2125 E. 5th Street, Suite 104
Tempe, AZ 85281

Kent Electronics, Inc.
2191 George Urban Boulevard
Depew, NY 14043

Kent Electronics, Inc.
17815-R Newhope Street
Fountain Valley, CA 92708

Kent Electronics, Inc.
600 Seneca Street
Oneida, NY 13421

Kent Electronics, Inc.
6195 Cornerstone Court, Suite 114
San Diego, CA 92121

Kent Electronics, Inc.
9770 S.W. Nimbus Avenue
Beaverton, OR 97005

Kent Electronics, Inc.
225 Charcot Avenue
San Jose, CA 95131

Kent Electronics, Inc.
11500 Metric Boulevard, Suite 250
Austin, TX 78758

Kent Electronics, Inc.
361-H Inverness Drive, S.
Englewood, CO 80112

Kent Electronics, Inc.
7433 Harwin Drive
Houston, TX 77036

Kent Electronics, Inc.
29-A Village Lane
Wallingford, CT 06492

Kent Electronics, Inc.
661 N. Plano Road, Suite 300
Richardson, TX 75081-2437

Kent Electronics, Inc.
6355 Metrowest Blvd., Suite 240
Orlando, FL 32835

Kent Electronics, Inc.
8469 15th Avenue, N.E.
Redmond, WA 98052

Kent Electronics, Inc.
4340 North Park Place, N.E., Suite 110
Cedar Rapids, IA 52402

Marshall Industries
3313 Memorial Parkway, S.
Huntsville, AL 35801

Kent Electronics, Inc.
721 Landmeier Road
Elk Grove Village, IL 60007

Marshall Industries
9831 S. 51st Street, Suites C107-109
Phoenix, AZ 85044

Kent Electronics, Inc.
6316 College Boulevard
Overland Park, KS 66211

Marshall Industries
9320 Telstar Avenue
El Monte, CA 91731

Kent Electronics, Inc.
19 Alpha Road
Chelmsford, MA 01824

Marshall Industries
9661 Telstar Avenue
El Monte, CA 91731

*

MANUFACTURER: AVX Corporation (Continued)

Marshall Industries
1 Morgan Street
Irvine, CA 92718

Marshall Industries
336 Los Choches Street
Milpitas, CA 95035

Marshall Industries
2941 Sunrise Boulevard, Suite 130
Rancho Cordova, CA 95742

Marshall Industries
5961 Kearny Villa
San Diego, CA 92123

Marshall Industries
558 St. Charles Drive, Suite 200
Thousand Oaks, CA 91360-3903

Marshall Industries
6815 8th Street, N.E., Suite 152
Calgary, Alberta T2E 7H7 Canada

Marshall Industries
4170 Still Creek Drive, Suite 200
Burnaby, British Columbia V5C 6C6 Canada

Marshall Industries
6285 Northam Drive, Suite 12
Mississauga, Ontario L4V 1X5 Canada

Marshall Industries
148 Brunswick Boulevard
Point Claire, Quebec H9R 5P9 Canada

Marshall Industries
12351 N. Grant Avenue
Thornton, CO 80241

Marshall Industries
20 Sterling Drive, P.O. Box 200
Wallingford, CT 06492-0200

Marshall Industries
380 S. Northlake Blvd., Suite 1024
Altamonte Springs, FL 32701

Marshall Industries
2700 W. Cypress Creek Road, Suite D114
Ft. Lauderdale, FL 33309

Marshall Industries
2840 Scherer Drive, Suite 410
St. Petersburg, FL 33716

Marshall Industries
5300 Oakbrook Parkway, Suite 140
Norcross, GA 30093

Marshall Industries
50 East Commerce, Unit 1
Schaumburg, IL 60195

Marshall Industries
5933 Lakeside Boulevard
Indianapolis, IN 46278

Marshall Industries
10413 W. 84th Terrace
Pine Ridge Business Park
Lenexa, KS 66214

Marshall Industries
33 Upton Drive
Wilmington, MA 01887

Marshall Industries
9130-B Guilford Road
Columbia, MD 21046

Marshall Industries
31067 Schoolcraft Road
Livonia, MI 48150

Marshall Industries
14800 28th Avenue N., Suite 175
Plymouth, MN 55447

Marshall Industries
5224 Green's Dairy Road
Raleigh, NC 27604

Marshall Industries
101 Fairfield Road
Fairfield, NJ 07006

Marshall Industries
158 Gaither Drive, Suite 100
Mt. Laurel, NJ 08054

Marshall Industries
3505-L Veterans Memorial Highway
Ronkonkoma, NY 11779

Marshall Industries
100 Marshall Drive
Endicott, NY 13760

Marshall Industries
1250 Scottsville Road
Rochester, NY 14624

Marshall Industries
3520 Park Center Drive
Dayton, OH 45414

MANUFACTURER: AVX Corporation (Continued)

Marshall Industries 30700-A Bainbridge Road Solon, OH 44139		Milgray Electronics, Inc. 2783 Thames Gate Drive Mississauga, Ontario, Canada L4T 1G5	*
Marshall Industries 9705 S.W. Gemini Drive Beaverton, OR 97005		Milgray Electronics, Inc. 6600 Trans Canada Highway, Suite 209 Pointe Claire, Quebec, Canada H9R 4S2	*
Marshall Industries 8504 Cross Park Drive Austin, TX 78754		Milgray Electronics, Inc. 8787 Turnpike Drive, Suite 160 Englewood, CO 80030	*
Marshall Industries 10681 Haddington Drive, Suite 160 Houston, TX 77043		Milgray Electronics, Inc. 326 W. Main Street Milford, CT 06460-0418	*
Marshall Industries 1551 N. Glenville Drive Richardson, TX 75081		Milgray Electronics, Inc. 755 Rinehart Road, Suite 100 Lake Mary, FL 32746	*
Marshall Industries 2355-D South 1070 West Salt Lake City, UT 84119		Milgray Electronics, Inc. 3000 Northwoods Parkway, Suite 115 Norcross, GA 30071	*
Marshall Industries 11715 N. Creek Parkway, Suite 112 Bothell, WA 98011		Milgray Electronics, Inc. 1530 E. Dundee Road, Suite 230 Palatine, IL 60067-8319	*
Marshall Industries 20900 Swenson Drive, Suite 150 Waukesha, WI 53186		Milgray Electronics, Inc. 6400 Glenwood Avenue, Suite 313 Overland Park, KS 66202-4021	*
Milgray Electronics, Inc. 8215 Highway 20 West Madison, AL 35758	*	Milgray Electronics, Inc. 187 Ballardville Street Wilmington, MA 01887-1046	*
Milgray Electronics, Inc. 410 North 44th Street Phoenix, AZ 85005	*	Milgray Electronics, Inc. 6460-D Dobbin Road Columbia, MD 21045-5813	*
Milgray Electronics, Inc. 25 Mauchly, Suite 329 Irvine, CA 92718-2329	*	Milgray Electronics, Inc. 2925 Huntleigh Drive, Suite 101 Raleigh, NC 27604-3374	*
Milgray Electronics, Inc. 6835 Flanders Drive, Suite 300 San Diego, CA 92121	*	Milgray Electronics, Inc. 523 Fellowship Road, Suite 275 Mt. Laurel, NJ 08054	*
Milgray Electronics, Inc. 2880 Zanker Road, Suite 102 San Jose, CA 95134	*	Milgray Electronics, Inc. 3799 Route 46 E, Suite 303 Parsippany, NJ 07054-1273	*
Milgray Electronics, Inc. 275 E. Hillcrest Drive, Suite 145 Thousand Oaks, CA 91360	*	Milgray Electronics, Inc. 77 Schmitt Boulevard Farmingdale, NY 11735	*
Milgray/Western Canada 4185 Still Creek Drive, Suite B201 Burnaby, British Columbia V5C 6G9 Canada	*	Milgray Electronics, Inc. 1170 Pittsford-Victor Road, Suite 200 Pittsford, NY 14534-3807	*

MANUFACTURER: AVX Corporation (Continued)

Milgray Electronics, Inc. 6155 Rockside Road, Suite 206 Cleveland, OH 44131-2289	*	Projections Unlimited, Inc. 472 Lowell Street Lynnfield, MA 01940	*
Milgray Electronics, Inc. 8705 S.W. Nimbus Avenue, Suite 206 Beaverton, OR 97008	*	Projections Unlimited, In. 1456 South 200 E. Farmington, UT 84025	*
Milgray Electronics, Inc. 11824 Jollyville Road, Suite 103 Austin, TX 78759	*	Spirit Electronics 15150 N. Hayden Road, Suite 104 Scottsdale, AZ 85260	
Milgray Electronics, Inc. 16610 Dallas Parkway, Suite 1305 Dallas, TX 75248-2617	*	Time Electronics 4960 Corporate Drive, Suite 135 Huntsville, AL 35805	
Milgray Electronics, Inc. 12000 Richmond Avenue, Suite 31 Houston, TX 77082	*	Time Electronics 2617 S. 46th Street Phoenix, AZ 85034	
Milgray Electronics, Inc. 310 E. 4500 S., Suite 110 Murray, UT 84107	*	Time Electronics 140 Technology Drive, Suite 300 Irvine, CA 92718	
NEP Electronics, Inc. 940 North Pointe Boulevard Waukegan, IL 60085		Time Electronics 15950 Bernardo Center Drive, Suites C & D San Diego, CA 92127	
NEP Electronics, Inc. 805 Mittel Drive Wood Dale, IL 60191		Time Electronics 1339 Moffett Park Drive Sunnyvale, CA 94089	
NEP Electronics, Inc. 2821 S. Moorland New Berlin, WI 53151		Time Electronics 6110 Variel Avenue, Suite 200 Woodland Hills, CA 91367	
NRC Electronics 6600 Park of Commerce Boulevard Boca Raton, FL 33487		Time Electronics 420 Britannia Road, E., Suite 108 Mississauga, Ontario L4A 1B2 Canada	
Neumann Electronics 13902 Heidi Street Garden Grove, CA 92643		Time Electronics 12503 E. Euclid Drive, #20 Englewood, CO 80111	
Neumann Electronics 8665 Miralani Drive San Diego, CA 92126		Time Electronics 5200 NW 33rd Avenue, Suite 214 Fort Lauderdale, FL 33309	
Projections Unlimited, Inc. 1605-A South Main Street Milpitas, CA 95035	*	Time Electronics 4203 Vineland, Suite K-7 Orlando, FL 32811	
Projections Unlimited, Inc. 10054 Mesa Ridge Court, Suite 114 San Diego, CA 92121	*	Time Electronics 3425 Corporate Way Duluth, GA 30136	
Projections Unlimited, Inc. 14831 Myford Road Tustin, CA 92680		Time Electronics 500 Lake Ridge Drive Smyrna, GA 30082	

MANUFACTURER: AVX Corporation (Continued)

Time Electronics
3030 Salt Creek Lane
Arlington Heights, IL 60005

Time Electronics
8216 154th Avenue, N.E.
Redmond, WA 98052

Time Electronics
10-A Centennial Drive
Peabody, MA 01960

Tri-Start Electronics *

2205 Brandon Station Road
Pleasant Garden, NC 27313

Time Electronics
7134 Columbia Gateway Drive, Suite 400
Columbia, MD 21046

Tri-Start Electronics *

277 Fairfield Road, Suite 122
Fairfield, NJ 07006

Time Electronics
5959 Baker Road, Suite 350
Minnetonka, MN 55345

Tri-Start Electronics *

18 Broad Street, Room 811
Charleston, SC 29401

Time Electronics
319 Consort Drive
Manchester, MO 63011

Tri-Start Electronics *

134 Remington Boulevard
Ronkonkoma, NY 11779

Time Electronics
5234 Green's Dairy Road
Raleigh, NC 27604

Time Electronics
7000 Atrium Way, Suite 4
Mt. Laurel, NJ 08054

Time Electronics
10 Lanidex Plaza West
Parsippany, NJ 07054

Time Electronics
70 Marcus Boulevard
Hauppauge, NY 11788

Time Electronics
5792 Widewaters Parkway
Syracuse, NY 13214

Time Electronics
5000 Rockside Road
Independence, OH 44131

Time Electronics
9750 S.W. Nimbus Avenue
Beaverton, OR 97005

Time Electronics
12211 Technology Boulevard
Austin, TX 78727

Time Electronics
11333 Pagemill Road
Dallas, TX 75243

Time Electronics
10500 Richmond Avenue
Houston, TX 77042

AUTHORIZED ER DISTRIBUTORS: (Category A unless otherwise specified)

MANUFACTURER: Kemet Electronics Corporation
Route 276 SE
Greenville, SC 29606

*NS - (NON-STOCKING: NORMALLY DOES NOT STOCK PARTS IN QUANTITY)

Acacia 2750 S. Hardy Drive, Suite #2 Tempe, AZ 85282	*	Bell Industries 11095 E. Knott Avenue Cypress, CA 90630	*
Acacia 47490 Seabridge Drive, Bldg. B Fremont, CA 94538		Bell Industries 320 Technology Drive, Suite 100 Irvine, CA 92718	*
Acacia 16592 Millikan Avenue Irvine, CA 92714	*	Bell Industries 11812 San Vincente Boulevard Los Angeles, CA 90049	*
Acacia 6540 Lusk Boulevard, Suite C-155 San Diego, CA 92121	*	Bell Industries 4300 Anthony Court, Suite 100 Rocklin, CA 95677	*
Acacia 3230 Scott Boulevard Santa Clara, CA 95054		Bell Industries 5520 Ruffin Court San Diego, CA 92123-1320	*
Acacia 12421 W. 49th Street, Unit #1 Wheatridge, CO 80033	*	Bell Industries 15200 Marquardt Avenue Santa Fe Springs, CA 90670	
Acacia 3101 S.W. 153rd Drive, Suite 304 Beaverton, OR 97006	*	Bell Industries 1161 North Fair Oaks Avenue Sunnyvale, CA 94089	*
Acacia West Park C 8563 154th Avenue, N.E. Redmond, WA 98052	*	Bell Industries 9351 Grant Street Thornton, CO 80221	*
Alliance Electronics, Inc. 7550 E. Redfield Road Scottsdale, AZ 85260	*	Bell Industries 1064 E. Main Street Meriden, CT 06450	*
Alliance Electronics, Inc. 3411 Bryn Mawr, N.E. Albuquerque, NM 87107		Bell Industries 600 S. Northlake Boulevard Altamonte Springs, FL 32701	*
Arm Bar Industries P.O. Box 339 139 White Oak Lane Old Bridge, NJ 08857		Bell Industries 3020-A Business Park Drive Norcross, GA 30071	*
Bell Industries 140 S. Lindon Lane Tempe, AZ 85281	*	Bell Industries 870 Cambridge Elk Grove Village, IL 60007	*
Bell Industries 30301 Agoura Court Agoura Hills, CA 91301	*	Bell Industries 5226 West 79th Street Indianapolis, IN 46278	*
		Bell Industries/J.I.T. Division 5827 West 79th Street Indianapolis, IN 46278	*

MANUFACTURER: Kemet Electronics Corporation (Continued)

Bell Industries 100 Burt Road Andover, MA 01810	*	Electro Sonic, Inc. 1335 Carling Avenue, Suite 202 Ottawa, Ontario K1Z 8N8, Canada	*
Bell Industries 8945 Guilford Road, Suite 130 Columbia, MD 21046	*	Electro Sonic, Inc. 1100 Gordon Baker Road Willowdale, Ontario M2H 3B3, Canada	
Bell Industries 158 Gaither Drive Mt. Laurel, NJ 08054	*	Electro Sonic, Inc. 1661 Portage Avenue Winnipeg, Manitoba R3J 3T7, Canada	*
Bell Industries 11728 Linn, N.E. Albuquerque, NM 87123		Farnell Electronic Services 18 Technology Drive, Suite 200 Irvine, CA 92718	
Bell Industries 446 Windsor Park Road Dayton, OH 45459		Farnell Electronic Services 2107 N. First Street, Suite 440 San Jose, CA 95131	
Bell Industries 9275 S.W. Nimbus Avenue Beaverton, OR 97005	*	Farnell Electronic Services 3015 5th Avenue, N.E., Suite 210 Calgary, Alberta, Canada	
Bell Industries 1701 Greenville Avenue Richardson, TX 75081	*	Farnell Electronic Services 8535 Commerce Court, Unit 101 Burnaby, B.C., V5A 4U7, Canada	
Bell Industries 6912-B South 185 W. Midvale, UT 84047	*	Farnell Electronic Services 1625 Dublin Avenue, Unit 250 Winnipeg, Manitoba R3H 0W3, Canada	
Bell Industries 1715 114th Avenue, N.E. Bellevue, WA 98004-6906		Farnell Electronic Services 29 Robertson Road, Suite 506 Nepean, Ontario K2H 8R2, Canada	
Bell Industries W226 N900 Eastmound Drive Waukesha, WI 53186	*	Farnell Electronic Services 300 N. Rivermead Road Concord, Ontario L4K 3N6, Canada	*
Capsco Sales 1031 Kiel Court Sunnyvale, CA 94089-2104		Farnell Electronic Services 6600 Trans Canada Highway, Suite 260 Pointe Claire, Quebec H9R 4S2, Canada	
Capsco Sales 15455 NW Greenbrier Parkway, Suite 120 Beaverton, OR 97026	*	Farnell Electronic Services 245 Shorewood Drive Webster, NY 14580	
Capsco Sales 14902 N.E. 31st Circle Redmond, WA 98052	*	Golden Electronics 115 S. Walnut Circle Greensboro, NC 27409	
Electro Sonic, Inc. 237 N. Heritage Trail, S.E. Calgary, Alberta T2H 0M6, Canada	*	Hamilton/Hallmark 3030 Salt Creek Lane, Suite 300 Arlington Heights, IL 60006	
Electro Sonic, Inc. 4020 Viking Way Richmond, B.C., V6U 2N2, Canada	*	Hammond Electronics 4111-B Evangel Circle, N.W. Huntsville, AL 35816	

MANUFACTURER: Kemet Electronics Corporation (Continued)

Hammond Electronics 6600 N.W. 21st Avenue Ft. Lauderdale, FL 33309		Jaco Electronics 145 Oser Avenue Hauppauge, L.I., NY 11787 (Category B)	
Hammond Electronics 1230 W. Central Boulevard Orlando, FL 32805		Jaco Electronics 2120-A Braker Lane Austin, TX 78758	*
Hammond Electronics 5680 Oakbrook Parkway Norcross, GA 30093		Jaco Electronics 1209 N. Glenville Road Richardson, TX 75081	*
Hammond Electronics 2923 Pacific Avenue Greensboro, NC 27406		Jaco Electronics 17220 127th Place, Suite 300 Woodinville, WA 98072	*
Jaco Electronics 1610-A Barryesa Road San Jose, CA 95133	*	Newark Electronics 4747 West Century Boulevard Inglewood, CA 90304-1441	*
Jaco Electronics 1541-A Parkway Loop Tustin, CA 92680	*	Newark Electronics 271 Attwell Drive Etobicoke, Ontario, M9W 5B9 Canada	*
Jaco Electronics 2282 Townsgate Road Westlake Village, CA 91361	*	Newark Electronics 1625 Trinity Drive Mississauga, Ontario, Canada L5J 1K4	*
Jaco Electronics P.O. Box 471 Erie, CO 80516	*	Newark Electronics 2170 South Grape Street Denver, CO 80222-5233	*
Jaco Electronics 1060 Holland Drive, Suite 3K Boca Raton, FL 33487	*	Newark Electronics 4755 Paris Street Denver, CO 80239	*
Jaco Electronics 9900 W. Sample Road Coral Springs, FL 33065	*	Newark Electronics 500 North Pulaski Road Chicago, IL 60624	*
Jaco Electronics 1053 East Street Tewksbury, MA 01887	*	Newark Electronics 4801 North Ravenswood Avenue Chicago, IL 60640	*
Jaco Electronics. 10270 Old Columbia Road Columbia, MD 21046	*	Newark Electronics 20700 Hubble Avenue Oak Park, MI 48237-0630	*
Jaco Electronics. 10340 Viking Drive Eden Prairie, MN 55344	*	Newark Electronics 336 Hoover Street, N.E. Minneapolis, MN 55413-2965	*
Jaco Electronics 5206 Greens Dairy Road Raleigh, NC 27604	*	Newark Electronics 217 Wilcox Avenue Gaffney, SC 29340	*
Jaco Electronics 4900 S.W. Griffith Drive Beaverton, OR 97005	*	Newark Electronics 707 Easy Street Garland, TX 75042-6841	*

MANUFACTURER: Kemet Electronics Corporation (Continued)

Newark Electronics 8203 Willow Place, Suite 560 Houston, TX 77070	*	Pioneer/Cleveland 4800 East 131st Street Cleveland, OH 44105	*
North American Capacitors 7545 Rockville Road Indianapolis, IN 46224 (Category B)		Pioneer/Dayton 4433 Interpoint Blvd. Dayton, OH 45424	
Pioneer Electronics 5126 Clareton Drive Agoura, CA 91301		Pioneer Electronics 4110 S 100th E. Avenue Tulsa, OK 74135	*
Pioneer Electronics 217 Technology Drive, #110 Irvine, CA 92718		Pioneer/Pittsburgh 259 Kappa Drive Pittsburgh, PA 15238	*
Pioneer Electronics 4370 La Jolla Village Drive San Diego, CA 95134		Pioneer/Austin 1826-D Kramer Lane Austin, TX 78758	*
Pioneer/Norwalk Two Trap Falls Shelton, CT 06484	*	Pioneer/Dallas 13765 Beta Road Dallas, TX 75240	*
Pioneer/Chicago 2171 Executive Drive, Suite 200 Addison, IL 60101	*	Pioneer/Houston 10530 Rockley Road Houston, TX 77099-3529	*
Pioneer/Indiana 9350 N. Priority Way West Indianapolis, IN 46240	*	Pioneer Electronics 120 Bishops Way Brookfield, WI 53005	*
Pioneer/Lexington 44 Hartwell Avenue Lexington, MA 02173	*	Pioneer Technologies 4825 University Square Huntsville, AL 35805	*
Pioneer Electronics 44190 Plymouth Oaks Drive Plymouth, MI 48170	*	Pioneer Technologies 337 North Lake Boulevard, #1000 Altamonte Springs, FL 32702	*
Pioneer/Twin Cities 7625-G Golden Triangle Drive Eden Prairie, MN 55344	*	Pioneer Technologies 674 South Military Trail Deerfield Beach, FL 33442	*
Pioneer Electronics 14-A Madison Road Fairfield, NJ 07006	*	Pioneer Technologies 4250-C Rivergreen Parkway Duluth, GA 30136	*
Pioneer/Binghamton 1249 Upper Front Street Binghamton, NY 13904	*	Pioneer Technologies 2200 Gateway Center Blvd. Morrisville, NC 27560	*
Pioneer/Rochester 840 Fairport Park Fairport, NY 14450	*	Pioneer Technologies 500 Enterprise Road Horsham, PA 19044	*
Pioneer/Woodbury 60 Crossways Park West Woodbury, NY 11797	*	Pioneer-Zentronics 4455 #6 Road Richmond, B.C. V6V 1P8, Canada	

MANUFACTURER: Kemet Electronics Corporation (Continued)

Pioneer-Zentronics 223 Colonnade Road, Suite 112 Nepean, Ontario K2E 7K3, Canada		Sterling Electronics 8200 S. Akron Street, Suite 111 Englewood, CO 80112	*
Pioneer-Zentronics 520 McCaffrey Street Ville St. Laurent, Quebec H4T 1N1 Canada	*	Sterling Electronics 39 Capital Drive Wallingford, CT 06492	*
Semicap Electronics Corp. 1787 Veterans' Memorial Highway Central Islip, NY 11722		Sterling Electronics 5555 Oakbrook Parkway, Suite 350 Norcross, GA 30093	*
Seymour Electronics 600 S. North Lake Boulevard Altamonte Springs, FL 32701	*	Sterling Electronics 2050 Algonquin, Suite 608 Schaumburg, IL 60173	*
Seymour Electronics 6410-A Dobbin Road Columbia, MD 21045	*	Sterling Electronics 14635 W. 95th Street Lenexa, KS 66215	*
Seymour Electronics 520 Fellowship Road Mt. Laurel, NJ 08054 (NOTE: Category B)	*	Sterling Electronics 15-D Constitution Way Woburn, MA 01801	*
Seymour Electronics 357 Crossways Park Drive Woodbury, NY 11797-2042		Sterling Electronics 6304 Woodside Court, Suite 1115 Columbia, MD 21046-1071	*
Sprague Electric 678 Main Street Sanford, ME 04073 (QPL-39003 only)		Sterling Electronics 5000 W. 78th Street Minneapolis, MN 55435	*
Summit Distributors, Inc. 916 Main Street Buffalo, NY 14202		Sterling Electronics 87 Campus Plaza Drive Edison, NJ 08837	*
Sterling Electronics 3312 E. Broadway Road Phoenix, AZ 85040	*	Sterling Electronics 16000 Horizon Way, #800 Mt. Laurel, NJ 08054	*
Sterling Electronics 15215 Alton Parkway, Suite 100 Irvine, CA 92718	*	Sterling Electronics 2725 Millbrook Road, Suite 123 Raleigh, NC 27604	*
Sterling Electronics 9340 Hayward Way, Suite 3A San Diego, CA 92123	*	Sterling Electronics 3540-D Pan American Expressway Albuquerque, NM 87107	*
Sterling Electronics 2151 Bering Drive San Jose, CA 95131	*	Sterling Electronics 6557-A Cochran Road Solon, OH 44139	*
Sterling Electronics 31200 Via Colinas, Suite 110 Westlake, CA 91362	*	Sterling Electronics 5119 S. 110th E. Avenue Tulsa, OK 74146	*
		Sterling Electronics 11500 Metric Boulevard, Suite 495 Austin, TX 78758	*

MANUFACTURER: Kemet Electronics Corp. (Continued)

Sterling Electronics 1210 Champion Circle, Suite 100 Carrollton, TX 75006	*	T.T.I. 9300 110th Street Overland Park, KS 66210	*
Sterling Electronics 4201 Southwest Freeway Houston, TX 77027		T.T.I. Two Highwood Drive Tewksbury, MA 01876	*
Sterling Electronics 1615 West 2200 South Salt Lake City, UT 84119	*	T.T.I. 6420 Dobbin Road Columbia, MD 21045	*
Sterling Electronics 711-J Moorefield Park Drive Richmond, VA 23236	*	T.T.I. 12301 Whitewater Drive Minnetonka, MN 55343	*
Summit Distributors, Inc. 292 Commerce Street Rochester, NY 14632	*	T.T.I. 4805 Green's Dairy Road Raleigh, NC 27604	*
T.T.I. 4625 S. Wendler Drive, Suite 108 Tempe, AZ 85282	*	T.T.I. 1 Executive Drive Morrestown, NJ 08057	*
T.T.I. 1535 McCandless Drive, Bldg. 11 Milpitas, CA 95035	*	T.T.I. 921 South 2nd Street Ronkonkoma, NY 11779	*
T.T.I. 15535 San Fernando Mission Blvd. Mission Hills, CA 91345	*	T.T.I. 4700 Rockside Road Cleveland, OH 44131	*
T.T.I. 13220 Evening Creek Drie San Diego, CA 92128	*	T.T.I. 6500 Poe Avenue, Suite 400 Dayton, OH 45414	*
T.T.I. 1570 Brookhollow Suite 103 Santa Ana, CA 92128	*	T.T.I. 7185 S.W. Sandburg Road, Suite 202 Tigard, OR 97223	*
T.T.I. 6510 W. 91st Avenue Westminster, CO 80031	*	T.T.I. 7359 Airport Freeway Fort Worth, TX 76118	
T.T.I. 8 Fairfield Boulevard Wallingford, CT 06492	*	T.T.I. 2441 Northeast Parkway Fort Worth, TX 76106-1896	
T.T.I. 6220 South Orange Blossom, Suite 516 Orlando, FL 32809	*	T.T.I. 10849 Kinhurst Houston, TX 77099	*
T.T.I. 6410 Atlantic Boulevard Norcross, GA 30071	*	T.T.I. 9577 N.E. 153rd Street Redmond, WA 98052	*
T.T.I. 1301 Basswood Road Schaumburg, IL 60173	*	Zeus Components 2415 West Erie Drive Tempe, AZ 85282-3172	*

MANUFACTURER: Kemet Electronics Corp. (Continued)

Zeus Components *

6 Cromwell Street
Irvine, CA 92718

Zeus Components *

6276-E San Ignacio Avenue
San Jose, CA 96119

Zeus Components *

37 Skline Drive
Lake Mary, FL 32746

Zeus Components *

1140 W. Thorndale Avenue
Itasca, IL 60143

Zeus Components *

25 Upton Drive
Wilmington, MA 01887

Zeus Components *

100 Midland Avenue
Port Chester, NY 10573

Zeus Components *

3200 Commander Drive
Carrollton, TX 75006