

QUALIFICATION VALIDATED
SEMIANNUALLY

QPL-20-131
28 July 1999
SUPERSEDING
QPL-20-130
26 February 1998

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	SPECIFI-CATION 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 TEST OR DESIGNATION	QUALIFICATION OR TYPE NUMBER	SPECIFI- CATION REFERENCE	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 REFERENCE	MANUFACTURER'S NAME (ADDRESS ON LAST PAGE)
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. tol., 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.
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.	C124G	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.	C124G	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.	C192G	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.	C192G	20-1104-73	/29	Kemet Electronics Corp.

GOVERNMENT DESIGNATION	MANUFACTURER'S TEST OR DESIGNATION	QUALIFICATION OR TYPE NUMBER REFERENCE	SPECIFI- CATION SHEET	MANUFACTURER'S NAME (ADDRESS ON LAST PAGE)
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
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Kemet Electronics Corporation P.O. Box 5928 Greenville, SC 29606 Plant: Periferico Alianza y Jose Arresse #10 Matamoros, Mexico	31433

AUTHORIZED ER DISTRIBUTORS (Category A unless otherwise specified):

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Advacom, Inc. 100 Sagamore Hill Road Pittsburgh, PA 15239-2982	*	Capstone 3220 Commander Drive Carrollton, TX 75006
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Hamilton Hallmark
Spokane Industrial Park, Bldg. 13
Spokane, WA 99216

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Munoz Maria Avenue S-1
Caguas, PR 00725

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Madison, WI 53717

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St. Paul, MN 55114

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Houston, TX 77036

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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

*

Marshall Industries
1 Morgan Street
Irvine, CA 92718

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

Marshall Industries
336 Los Choches Street
Milpitas, CA 95035

Marshall Industries
5933 Lakeside Boulevard
Indianapolis, IN 46278

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

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

Marshall Industries
5961 Kearny Villa
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Marshall Industries
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Marshall Industries
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9130-B Guilford Road
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Marshall Industries
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Marshall Industries
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Marshall Industries
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148 Brunswick Boulevard
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Marshall Industries
101 Fairfield Road
Fairfield, NJ 07006

Marshall Industries
12351 N. Grant Avenue
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158 Gaither Drive, Suite 100
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20 Sterling Drive, P.O. Box 200
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100 Marshall Drive
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Marshall Industries
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Marshall Industries
1250 Scottsville Road
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Marshall Industries
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Marshall Industries
3520 Park Center Drive
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Marshall Industries
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Marshall Industries 10681 Haddington Drive, Suite 160 Houston, TX 77043	Milgray Electronics, Inc. 326 W. Main Street Milford, CT 06460-0418	*
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Milgray Electronics, Inc. 6835 Flanders Drive, Suite 300 San Diego, CA 92121	Milgray Electronics, Inc. 523 Fellowship Road, Suite 275 Mt. Laurel, NJ 08054	*
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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	*

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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	

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5000 Rockside Road
Independence, OH 44131

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Time Electronics
12211 Technology Boulevard
Austin, TX 78727

Time Electronics
11333 Pagemill Road
Dallas, TX 75243

Time Electronics
10500 Richmond Avenue
Houston, TX 77042

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Acacia 6540 Lusk Boulevard, Suite C-155 San Diego, CA 92121	*	Bell Industries 4300 Anthony Court, Suite 100 Rocklin, CA 95677	*
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Acacia West Park C 8563 154th Avenue, N.E. Redmond, WA 98052	*	Bell Industries 9351 Grant Street Thornton, CO 80221	*
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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	*
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Bell Industries 100 Burtt Road Andover, MA 01810	*	Electro Sonic, Inc. 1335 Carling Avenue, Suite 202 Ottawa, Ontario K1Z 8N8, Canada	*
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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	
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Bell Industries 9275 S.W. Nimbus Avenue Beaverton, OR 97005	*	Farnell Electronic Services 3015 5th Avenue, N.E., Suite 210 Calgary, Alberta, Canada	
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Bell Industries 1715 114th Avenue, N.E. Bellevue, WA 98004-6906		Farnell Electronic Services 29 Robertson Road, Suite 506 Nepean, Ontario K2H 8R2, Canada	
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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	

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5680 Oakbrook Parkway
Norcross, GA 30093

Hammond Electronics
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1541-A Parkway Loop
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Jaco Electronics
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Jaco Electronics.
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Eden Prairie, MN 55344

Jaco Electronics
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Jaco Electronics *
1209 N. Glenville Road
Richardson, TX 75081

Jaco Electronics *
17220 127th Place, Suite 300
Woodinville, WA 98072

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4747 West Century Boulevard
Inglewood, CA 90304-1441

Newark Electronics *
271 Attwell Drive
Etobicoke, Ontario, M9W 5B9 Canada

Newark Electronics *
1625 Trinity Drive
Mississauga, Ontario, Canada L5J 1K4

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2170 South Grape Street
Denver, CO 80222-5233

Newark Electronics *
4755 Paris Street
Denver, CO 80239

Newark Electronics *
500 North Pulaski Road
Chicago, IL 60624

Newark Electronics *
4801 North Ravenswood Avenue
Chicago, IL 60640

Newark Electronics *
20700 Hubble Avenue
Oak Park, MI 48237-0630

Newark Electronics *
336 Hoover Street, N.E.
Minneapolis, MN 55413-2965

Newark Electronics *
217 Wilcox Avenue
Gaffney, SC 29340

Newark Electronics *
707 Easy Street
Garland, TX 75042-6841

MANUFACTURER: Kemet Electronics Corporation (Continued)

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North American Capacitors 7545 Rockville Road Indianapolis, IN 46224 (Category B)		Pioneer/Dayton 4433 Interpoint Blvd. Dayton, OH 45424	
Pioneer Electronics 5126 Clarendon 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	*
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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	*
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T.T.I. 13220 Evening Creek Drie San Diego, CA 92128	*	T.T.I. 6500 Poe Avenue, Suite 400 Dayton, OH 45414	*
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T.T.I. 6410 Atlantic Boulevard Norcross, GA 30071	*	T.T.I. 9577 N.E. 153rd Street Redmond, WA 98052	*
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