Specification Details: **Date: 7/22/2008**

Specification: MIL-PRF-39003
Title: Capacitor, Fixed, Electrolytic (Solid Electrolyte), Tantalum
Federal Supply Class (FSC): 5910
Conventional: No
Specification contains quality assurance program: No
MIL-STD-790 Established Reliability & High Reliability: Yes
MIL-STD-690 Failure Rate Sampling Plans & Procedures: Yes
Weibull Graded: Yes
Specification contains space level reliability requirements: Yes
Specification allows test optimization: Yes

Contact Information:

DSCC Office of Primary Involvement: Passive Devices Team, DSCC-VQP
Primary DSCC-VQ Contact: 614-692-0597, e-mail: vqp.jz@dla.mil
Secondary DSCC-VQ Contact: 614-692-0666, e-mail: vqp.mp@dla.mil

Notes:

An asterisk (*) adjacent to the product listing indicates that qualified parts in this listing 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 such 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 or such list is not, under any circumstance, to be considered an endorsement of such firm or its products by the Department of Defense.

Part Configuration:

M39003/01-2065A

Style	Slash Sheet	Dash Number	Surge Current Option Letter
M39003	/01	-2065	A

Part Listings:

GOVERNMENT DESIGNATION		MANUFACTURER'S DESIGNATION OR TYPE NUMBER	TEST OR QUALIFICATION REFERENCE	SPECIFI-CATION SHEET	SUPPLIER'S NAME (ADDRESS ON LAST PAGE)
CSR09*					
M39003/02-0001 thru -0002	(M level)	T-222	SEPSE-TM-67-1	/2	Kemet Electronics Corp.
M39003/02-0007 thru -0051	(M level)	T-222	SEPSE-TM-67-1	/2	Kemet Electronics Corp.
M39003/02-0061 thru -0062	(P level)	T-222	SEPSE-TM-67-1	/2	Kemet Electronics Corp.
M39003/02-0067 thru -0111	(P level)	T-222	SEPSE-TM-67-1	/2	Kemet Electronics Corp.
M39003/02-0121 thru -0122	(R level)	T-222	SEPSE-TM-67-1	/2	Kemet Electronics Corp.
M39003/02-0127 thru -0171	(R level)	T-222	SEPSE-TM-67-1	/2	Kemet Electronics Corp.
M39003/02-0181 thru -0182	(S level)	T-222	SEPSE-TM-67-1	/2	Kemet Electronics Corp.
M39003/02-0187 thru -0231	(S level)	T-222	SEPSE-TM-67-1	/2	Kemet Electronics Corp.
M39003/02-1001 thru -1002	(M level)	T-222	SEPSE-TM-67-1	/2	Kemet Electronics Corp.
M39003/02-1007 thru -1051	(M level)	T-222	SEPSE-TM-67-1	/2	Kemet Electronics Corp.
M39003/02-1061 thru -1062	(P level)	T-222	SEPSE-TM-67-1	/2	Kemet Electronics Corp.
M39003/02-1067 thru -1111	(P level)	T-222	SEPSE-TM-67-1	/2	Kemet Electronics Corp.
M39003/02-1121 thru -1122	(R level)	T-222	SEPSE-TM-67-1	/2	Kemet Electronics Corp.
M39003/02-1127 thru -1171	(R level)	T-222	SEPSE-TM-67-1	/2	Kemet Electronics Corp.
M39003/02-1181 thru -1182	(S level)	T-222	SEPSE-TM-67-1	/2	Kemet Electronics Corp.
M39003/02-1187 thru -1231	(S level)	T-222	SEPSE-TM-67-1	/2	Kemet Electronics Corp.
M39003/02-2001 thru -2094	(B level)	T-222	39003-759-84 thru 39003-762-84 39003-1524-86	/2	Kemet Electronics Corp.
M39003/02-3001 thru -3094	(C level)	T-222	39003-759-84 thru 39003-762-84 39003-1524-86	/2	Kemet Electronics Corp.
M39003/02-4001 thru -4094	(D level)	T-222	39003-759-84 thru 39003-762-84 39003-1524-86	/2	Kemet Electronics Corp.
CSR13*					

GOVERNMENT DESIGNATION		MANUFACTURER'S DESIGNATION OR TYPE NUMBER	TEST OR QUALIFICATION REFERENCE	SPECIFI-CATION SHEET	SUPPLIER'S NAME (ADDRESS ON LAST PAGE)
CSR13*					
M39003/01-2241 thru -2473	(M level)	T-212	39003-76-75	/1	Kemet Electronics Corp.
M39003/01-2481 thru -2713	(P level)	T-212	39003-76-75	/1	Kemet Electronics Corp.
M39003/01-2721 thru -2953	(R level)	T-212	39003-76-75	/1	Kemet Electronics Corp.
M39003/01-2961 thru -3193	(S level)	T-212	39003-76-75	/1	Kemet Electronics Corp.
M39003/01-5001 thru -5168	(M level)	T-212	39003-76-75	/1	Kemet Electronics Corp.
M39003/01-5201 thru -5368	(P level)	T-212	39003-76-75	/1	Kemet Electronics Corp.
M39003/01-5401 thru -5568	(R level)	T-212	39003-76-75	/1	Kemet Electronics Corp.
M39003/01-5601 thru -5768	(S level)	T-212	39003-76-75	/1	Kemet Electronics Corp.
M39003/01-6001 thru -6401	(B level)	T-212	39003-749-84 thru 39003-758-84 39003-1523-86	/1	Kemet Electronics Corp.
M39003/01-7001 thru -7388	(C level)	T-212	39003-749-84 thru 39003-758-84 39003-1523-86	/1	Kemet Electronics Corp.
M39003/01-8001 thru -8303	(D level)	T-212	39003-749-84 thru 39003-758-84 39003-1523-86	/1	Kemet Electronics Corp.
M39003/01-2241 thru -2473	(M level)	176D/376D	39003-972-74	/1	Vishay Israel, Ltd.
M39003/01-2481 thru -2713	(P level)	176D/376D	39003-972-74	/1	Vishay Israel, Ltd.
M39003/01-2721 thru -2953	(R level)	176D/376D	39003-972-74	/1	Vishay Israel, Ltd.
M39003/01-2961 thru -3193	(S level)	176D/376D	39003-972-74	/1	Vishay Israel, Ltd.
M39003/01-5001 thru -5168	(M level)	176D/376D	39003-972-74	/1	Vishay Israel, Ltd.
M39003/01-5201 thru -5368	(P level)	176D/376D	39003-972-74	/1	Vishay Israel, Ltd.
M39003/01-5401 thru -5555	(R level)	176D/376D	39003-972-74	/1	Vishay Israel, Ltd.
M39003/01-5601 thru -5755	(S level)	176D/376D	39003-972-74	/1	Vishay Israel, Ltd.
M39003/01-6001 thru -6401	(B level)	176D/376D	39003-45-02 39003-1033-86 thru 39003-1048-86	/1	Vishay Israel, Ltd.
M39003/01-6001 thru -6263	(B level)	176D/376D	39003-1033-86 thru 39003-1048-86 39003-45-02	/1	Vishay Israel, Ltd.
M39003/01-7001 thru -7388	(C level)	176D/376D	39003-1033-86 thru 39003-1048-86 39003-45-02	/1	Vishay Israel, Ltd.
M39003/01-8001 thru -8388	(D level)	176D/376D	39003-1033-86 thru 39003-1048-86 39003-45-02	/1	Vishay Israel, Ltd.
CSR21*					
M39003/09-0001 thru -0085	(M level)	T-262	39003-1259-81	/9	Kemet Electronics Corp.
M39003/09-0101 thru -0185	(P level)	T-262	39003-1259-81	/9	Kemet Electronics Corp.
M39003/09-0201 thru -0285	(R level)	T-262	39003-1259-81	/9	Kemet Electronics Corp.
M39003/09-0301 thru -0385	(S level)	T-262	39003-1259-81	/9	Kemet Electronics Corp.
M39003/09-2001 thru -2085	(B level)	T-262	39003-769-84 thru 39003-772-84	/9	Kemet Electronics Corp.
M39003/09-3001 thru -3085	(C level)	T-262	39003-769-84 thru 39003-772-84	/9	Kemet Electronics Corp.
M39003/09-4001 thru -4085	(D level)	T-262	39003-769-84 thru 39003-772-84	/9	Kemet Electronics Corp.
M39003/09-0001 thru -0085	(M level)	576D	39003-597-92 39003-47-02	/9	Vishay Israel, Ltd.
M39003/09-0101 thru -0187	(P level)	576D	39003-597-92 39003-47-02	/9	Vishay Israel, Ltd.
M39003/09-0201 thru -0287	(R level)	576D	39003-597-92 39003-47-02	/9	Vishay Israel, Ltd.
M39003/09-0301 thru -0385	(S level)	576D	39003-47-02 39003-597-92	/9	Vishay Israel, Ltd.
M39003/09-2001 thru -2085	(B level)	576D	39003-1656-85 thru 39003-1659-85 39003-47-02	/9	Vishay Israel, Ltd.
M39003/09-3001 thru -3085	(C level)	576D	39003-1656-85 thru 39003-1659-85 39003-47-02	/9	Vishay Israel, Ltd.
M39003/09-4001 thru -4085	(D level)	576D	39003-47-02 39003-1656-85 thru 39003-1659-85	/9	Vishay Israel, Ltd.
CSR23*					
M39003/03-0101 thru -0187	(M level)	T-242	39003-673-70	/3	Kemet Electronics Corp.
M39003/03-0201 thru -0287	(P level)	T-242	39003-673-70	/3	Kemet Electronics Corp.
M39003/03-0301 thru -0387	(R level)	T-242	39003-673-70	/3	Kemet Electronics Corp.
M39003/03-0401 thru -0487	(S level)	T-242	39003-673-70	/3	Kemet Electronics Corp.
M39003/03-2001 thru -2087	(B level)	T-242	39003-763-84 thru 39003-768-84	/3	Kemet Electronics Corp.

GOVERNMENT DESIGNATION		MANUFACTURER'S DESIGNATION OR TYPE NUMBER	TEST OR QUALIFICATION REFERENCE	SPECIFI-CATION SHEET	SUPPLIER'S NAME (ADDRESS ON LAST PAGE)
CSR23*					
M39003/03-3001 thru -3087	(C level)	T-242	39003-763-84 thru 39003-768-84	/3	Kemet Electronics Corp.
M39003/03-4001 thru -4087	(D level)	T-242	39003-763-84 thru 39003-768-84	/3	Kemet Electronics Corp.
M39003/03-0101 thru -0187	(M level)	178D/378D	39003-547-70	/3	Vishay Israel, Ltd.
M39003/03-0201 thru -0287	(P level)	178D/378D	39003-547-70	/3	Vishay Israel, Ltd.
M39003/03-0301 thru -0387	(R level)	178D/378D	39003-547-70	/3	Vishay Israel, Ltd.
M39003/03-0401 thru -0487	(S level)	576D	39003-46-02 39003-547-70	/3	Vishay Israel, Ltd.
M39003/03-2001 thru -2087	(B level)	178D/378D	39003-814-87 thru 39003-819-87 39003-46-02	/3	Vishay Israel, Ltd.
M39003/03-3001 thru -3087	(C level)	178D/378D	39003-814-87 thru 39003-819-87 39003-46-02	/3	Vishay Israel, Ltd.
M39003/03-4001 thru -4087	(D level)	576D	39003-46-02 39003-814-87 thru 39003-819-87	/3	Vishay Israel, Ltd.
CSR33*					
M39003/06-0001 thru -0087	(M level)	T-252	39003-287-75	/6	Kemet Electronics Corp.
M39003/06-0101 thru -0187	(P level)	T-252	39003-287-75	/6	Kemet Electronics Corp.
M39003/06-0201 thru -0287	(R level)	T-252	39003-287-75	/6	Kemet Electronics Corp.
M39003/06-0301 thru -0387	(S level)	T-252	39003-287-75	/6	Kemet Electronics Corp.
M39003/06-2001 thru -2087	(B level)	T-252	39003-763-84 thru 39003-768-84	/6	Kemet Electronics Corp.
M39003/06-3001 thru -3084	(C level)	T-252	39003-763-84 thru 39003-768-84	/6	Kemet Electronics Corp.
M39003/06-4001 thru -4084	(D level)	T-252	39003-763-84 thru 39003-768-84	/6	Kemet Electronics Corp.
CSR91*					
M39003/04-0221 thru -0370	(M level)	T-213	39003-263-66	/4	Kemet Electronics Corp.
M39003/04-0441 thru -0590	(P level)	T-213	39003-263-66	/4	Kemet Electronics Corp.
M39003/04-0661 thru -0810	(R level)	T-213	39003-263-66	/4	Kemet Electronics Corp.
M39003/04-0881 thru -1030	(S level)	T-213	39003-263-66	/4	Kemet Electronics Corp.
M39003/04-3001 thru -3218	(B level)	T-213	39003-1523-86 39003-749-84 thru 39003-758-84	/4	Kemet Electronics Corp.
M39003/04-4001 thru -4218	(C level)	T-213	39003-749-84 thru 39003-758-84 39003-1523-86	/4	Kemet Electronics Corp.
M39003/04-5001 thru -5167	(D level)	T-213	39003-749-84 thru 39003-758-84 39003-1523-86	/4	Kemet Electronics Corp.
CSS13*					
M39003/10-2001 thru -2121	(B level)	T-216	39003-117-86 39003-1807-07	/10	Kemet Electronics Corp.
M39003/10-3001 thru -3121	(C level)	T-216	39003-117-86 39003-1807-07	/10	Kemet Electronics Corp.
CSS33*					
M39003/10-2500 thru -2557	(B level)	T-256	39003-118-86 39003-1807-07	/10	Kemet Electronics Corp.
M39003/10-3500 thru -3557	(C level)	T-256	39003-118-86 39003-1807-07	/10	Kemet Electronics Corp.

Manufacturer: Kemet Electronics Corp. (CAGE Code: 31433)

Location: 2835 Kemet Way, Simpsonville, SC 29681, US

Plant Location: Kemet de Mexico, S.A. de C.V., Ave. Carlos Salazar y Blv. Manuel Cavazos Lerma No. 15, H. Matamoros, C.P. 87380, Mexico

Distributor Locations:
1. Allied Electronics, 5035 Plainfield Ave. N.E., Suite E, Grand Rapids, MI 49525-1050
2. Allied Electronics, 6120 Earle Brown Drive, Suite 400, Brooklyn Center, MN 55430-2123
3. Allied Electronics, 2448 S. 102nd Street, West Allis, WI 53227-2141
4. Allied Electronics, 800 Roosevelt Road, Bldg. C, Suite 320, Glen Ellyn, IL 60137-5839
5. Allied Electronics, 9810 FM 1960 Bypass Road, W., Suite 210, Humble, TX 77338-3524
6. Allied Electronics, 3737 Executive Center Drive, Suite 230, Austin, TX 78731-1633
7. Allied Electronics, 6 Inverness Ct. E, Suite 135, Englewood, CO 80112-5512
8. Allied Electronics, 1921 S. Alma School Road, Suite 210, Mesa, AZ 85210-3038
9. Allied Electronics, 10985 Cody Street, Suite 115, Overland Park, KS 66210-1224
10. Allied Electronics, 408 Highland Ave., Bldg. A Office 10, Cheshire, CT 06410-2525
11. Allied Electronics, 32 Daniel Webster Highway, Suite 21, Merrimack, NH 03054-4860
12. Allied Electronics, 200 Stonewall Blvd., Unit 202B, Wrentham, MA 02093-2209
13. Allied Electronics, 5 Cherry Hill Drive, Suite 120, Danvers, MA 01923-2500
14. Allied Electronics, 7410 Pebble Drive, Fort Worth, TX 76118-6997
15. Allied Electronics, 7151 Jack Newell Blvd., South, Fort Worth, TX 76118-6997
16. Allied Electronics, 1651 N. Collins Road, Suite 230, Richardson, TX 75080-3658
17. Allied Electronics, 9810 E. 42nd Street, Suite 130, Tulsa, OK 74146-3617
18. Allied Electronics, 10824 Old Mill Road, Suite 5, Omaha, NE 68154-2642
19. Allied Electronics, 40 W. Cochran Street, Suite 108, Simi Valley, CA 93065-6244
20. Allied Electronics, 7777 Center Ave., Suite 540, Huntington Beach, CA 92647-3063
21. Allied Electronics, 15373 Innovation Drive, Suite 380, San Diego, CA 92128-3426
22. Allied Electronics, 20270 Middlebelt Road, Suite 8, Livonia, MI 48152-2000
23. Allied Electronics, 12400 N. Meridian Street, Suite 195, Carmel, IN 46032-4607
24. Allied Electronics, 5755 Granger Road, Suite 756, Independence, OH 44131-1459
25. Allied Electronics, 250 E. Wilson Bridge Road, Suite 270, Worthington, OH 43085-2374
26. Allied Electronics, 8134 New Lagrange Road, Suite 202, Louisville, KY 40222-4678
27. Allied Electronics, 2970 Cottage Hill Road, Suite 206, Mobile, AL 36606-4748
28. Allied Electronics, 4835 University Square, Suite 12, Huntsville, AL 35816-1845
29. Allied Electronics, 7985 113th Street, Suite 300, Seminole, FL 33772-4788
30. Allied Electronics, 10400 Griffin Road, Suite 208, Cooper City, FL 33328-3321
31. Allied Electronics, 2180 W. State Road 434, Suite 1170, Longwood, FL 32779-5008
32. Allied Electronics, 20 Technology Parkway South, Suite 350, Norcross, GA 30092-2929
33. Allied Electronics, 1 Executive Drive, Suite 1, Moorestown, NJ 08057-4222
34. Allied Electronics, 515 E. 4500 S. Professional Plaza Suite G-210, Salt Lake City, UT 84107-4500
35. Allied Electronics, 300 Executive Center Drive, Suite 250B-197, Greenville, SC 29615-4519
36. Allied Electronics, 801 Jones Franklin Road, Suite 290, Raleigh, NC 27606-3381
37. Allied Electronics, 4525 E. Honeygrove Road, Suite 202, Virginia Beach, VA 23455-6090
38. Allied Electronics, 7406 Alban Station Court, Suite B206, Springfield, VA 22150-2310
39. Allied Electronics, 7125 Thomas Edison Drive, Suite 101, Columbia, MD 21046-2209
40. Allied Electronics, 4711 Queen Street, Suite 202, Harrisburg, PA 17109-3125
41. Allied Electronics, 1500 Ardmore Blvd., Suite 205, Pittsburgh, PA 15221-4468
42. Allied Electronics, 333 Metro Park, Suite N107, Rochester, NY 14623-2632
43. Allied Electronics, 101 Old Cove Road, Suite 108, Liverpool, NY 13090-3740
44. Allied Electronics, 488 Freedom Plains, Suite 132, Poughkeepsie, NY 12603-2697
45. Allied Electronics, 2150 Joshuas Path, Suite 14, Hauppauge, NY 11788-4771
46. Allied Electronics, 305 Northern Blvd., Suite 301, Great Neck, NY 11021-4805
47. Allied Electronics, 197 State Route 18, Suite 260, East Brunswick, NJ 08816-1405
48. Allied Electronics, 19625 62nd Ave. S., Suite C105, Kent, WA 98032-1109
49. Allied Electronics, 6700 SW 105th Ave., Suite 106, Beaverton, OR 97008-8825
50. Allied Electronics, 590 Menlo Drive, Suite 8, Rocklin, CA 95765-3705
51. Allied Electronics, 6830 Via Del Oro, Suite 100, San Jose, CA 95119-1391
52. Allied Electronics, 9434 Viscount Blvd., Suite 207, El Paso, TX 79925-7056
53. Allied Electronics, 3505 Boca Chica Blvd., Suite 260, Brownsville, TX 78521-4063
54. Allied Electronics, 1016 Rock Creek Elementary , O Fallon, MO 63366-7576
55. Allied Electronics, 1310 Tower Lane, NE Suite A, Cedar Rapids, IA 52402-7488
56. Arm Bar Industries, 2139 Highway 35, Suite #2 , Holmdel, NJ 07733-0386, NJ 07733-0386
57. Arrow Advantage, 7629 Anagram Drive, Eden Prairie, MN 55344-7255
58. Arrow Advantage, 19752 S. Vermont Ave., #310, Torrance, CA 90245
59. Arrow Alliance, 35 Upton Drive, Wilmington, MA 1887
60. Arrow Alliance, 1166 Springlake Drive, Itasca, IL 61043
61. Arrow Alliance, 5665 Rio Vista Drive, Clearwater, FL 33760
62. Arrow Alliance, 4910 Corporate Drive, Suite A, Huntsville, AL 35805
63. Arrow Alliance, 27121 Town Centre Drive, Suite 100, Lake Forest, CA 92610
64. Arrow Alliance, 3000 Bowers Avenue, Santa Clara, CA 95051
65. Arrow Alliance, 70 Jackson Drive, Cranford, NJ 7016
66. Arrow Alliance, 6340 International Parkway, Plano, TX 75075
67. Arrow Alliance, 200 Research Drive, Wilmington, MA 01887-4416
68. Arrow Alliance, 25 Hub Drive, Melville, NY 11747

ce, 27121 Town Centre Drive, Suite 100, Lake Forest, CA 92610
70. Arrow Electronics Components, 1855 Satellite Blvd., Suite 600, Duluth, GA 30097
71. Arrow Electronics Components, Malibu Canyon Business Park 20935 Warner Center Lane, Woodland Hills, CA 91367
72. Arrow Electronics Components, 2901 Wilcrest, Suite 120, Houston, TX 77042
73. Arrow Electronics Components, 6340 International Parkway, Plano, TX 75093
74. Arrow Electronics Components, 12111 E. 51st Street Suite 101, Tulsa, OK 74146
75. Arrow Electronics Components, 9801 Legler Road, Lenexa, KS 66219
76. Arrow Electronics Components, 860 N. Main Street Extension, Wallingford, CT 6492
77. Arrow Electronics Components, 9800J Patuxent Woods Dr., Columbia, MD 21046
78. Arrow Electronics Components, 355 Business Center Drive, Horsham, PA 19044
79. Arrow Electronics Components, 35 Upton Drive, Wilmington, MA 1887
80. Arrow Electronics Components, 3245 Old Frankstown Road, Pittsburgh, PA 15239
81. Arrow Electronics Components, 2165 Brighton-Henrietta Townline Road, Rochester, NY 14623
82. Arrow Electronics Components, 220 Rabro Drive East, Hauppauge, NY 11788
83. Arrow Electronics Components, Bldg B-Suite A 3310 146th Place SE, Bellevue, WA 98007
84. Arrow Electronics Components, 3300 Douglas Blvd., Suite 105, Roseville, CA 95661
85. Arrow Electronics Components, 27121 Towne Centre Drive, Suite 100, Foothill Ranch, CA 92610
86. Arrow Electronics Components, 10089 Willow Creek Road, Suite 250, San Diego, CA 92131
87. Arrow Electronics Components, 2380 Schuetz Road, St. Louis, MO 63146
88. Arrow Electronics Components, 2552 West Erie Drive, Suite 101, Tempe, AZ 85282
89. Arrow Electronics Components, 2440 S. 1070 W., Suite A, Salt Lake City, UT 84116
90. Arrow Electronics Components, 7459 S. Lima Street, Englewood, CO 80112
91. Arrow Electronics Components, 9233 Waterford Centre Blvd., Austin, TX 78758
92. Arrow Electronics Components, 55 Skyline Drive, Suite 2500, Lake Mary, FL 32746
93. Arrow Electronics Components, 13800 NW 14th Street, Suite 160 , Sunrise, FL 33323
94. Arrow Electronics Components, 200 Perimeter Park Drive, Suite D, Morrisville, NC 27560-9752
95. Arrow Electronics Components, 4930 Corporate Drive, Suite F, Huntsville, AL 35805
96. Arrow Electronics Components, 30600 Aurora Road, Suite 180, Bldg. B, Solon, OH 44139
97. Arrow Electronics Components, 7677 Paragon Road, Suite A, Dayton, OH 45458
98. Arrow Electronics Components, 6982 Hillsdale Court, Indianapolis, IN 46250
99. Arrow Electronics Components, 100 South Jefferson Road, Whippany, NJ 07981-1027
100. Arrow Electronics Components, 9500 SW Nimbus Ave., Bldg. E, Beaverton, OR 97008
101. Arrow Electronics Components, 3000 Bowers Avenue, Santa Clara, CA 95051
102. Arrow Electronics Components, 1162 Springlake Drive, Itasca, IL 60143
103. Arrow Electronics Components, 7697 Anagram Drive, Eden Prairie, MN 55344-7255
104. Arrow Electronics Components, 150 N. Patrick Boulevard, Suite 200, Brookfield, WI 53045
105. Arrow Electronics Components, 44720 Helm Street, Plymouth, MI 48170
106. Arrow Electronics Components, 5665 Rio Vista Drive, Clearwater, FL 33760
107. Arrow Electronics, Inc., 25 Hub Drive, Melville, NY 11747
108. Arrow Electronics, Inc., 220 Rabro Drive, East, Hauppauge, NY 11788
109. Arrow Electronics, Inc., 47 Mall Drive, Commack, NY 11725-5717
110. Arrow Zeus, 9800 J. Patuxent Woods Drive, Columbia, MD 21046
111. Arrow Zeus, 6340 International Parkway, Suite 100, Plano, TX 75093
112. Arrow Zeus, 7459 South Lima Street, Building 1, Englewood, CO 80112
113. Arrow Zeus, 55 Skyline Drive, Suite 2500, Lake Mary, FL 32746
114. Arrow Zeus, 7677 Paragon Road, Suite A, Dayton, OH 45459
115. Arrow Zeus, 1164 Springlake Drive, Itasca, IL 60143
116. Arrow Zeus, 27121 Towne Centre Drive, Suite 100, Foothill Ranch, CA 92610
117. Arrow Zeus, 2900 Westchester Ave., Suite 401, Purchase, NY 10577
118. Arrow Zeus, 35 Upton Drive, Wilmington, MA 1887
119. Avnet, Inc., 430 Exchange, Suite 100, Irvine, CA 92602
120. Avnet, Inc., 8214 154th Avenue, N.E., Redmond, WA 98052
121. Avnet, Inc., 3030 Salt Creek Lane, Suite 300, Arlington Heights, IL 60005
122. Avnet, Inc., 2740 American Blvd. West, Suite 150, Bloomington, MN 55431
123. Avnet, Inc., W232 N2960 Roundy Circle West, Suite 200, Pewaukee, WI 53072
124. Avnet, Inc., 630 W. Carmel Drive, Suite 100, Carmel, IN 46032
125. Avnet, Inc., 30775 Bainbridge Road, Suite 200, Solon, OH 44139
126. Avnet, Inc., 350 Worthington Road, Suite A, Westerville, OH 43081
127. Avnet, Inc., 4975 Bradford Drive, Suite 100, Huntsville, AL 35805
128. Avnet, Inc., 380 Park Place, Suite 170, Clearwater, FL 33759
129. Avnet, Inc., 3350 NW 53rd Street, Suite 105-107, Ft. Lauderdale, FL 33069
130. Avnet, Inc., 2501 Discovery Drive, Suite 150, Orlando, FL 32826
131. Avnet, Inc., 3450 Corporate Way, Suite A, Duluth, GA 30096
132. Avnet, Inc., 10805 Rancho Bernardo Road, Suite 110, San Diego, CA 92127
133. Avnet, Inc., 21155 Califa Street, Woodland Hills, CA 91367
134. Avnet, Inc., 2211 S. 47th Street, Phoenix, AZ 85034
135. Avnet, Inc., 2211 South 47th Street, Phoenix, AZ 85034
136. Avnet, Inc., 2855 E. Cottonwood Parkway, Suite 220, Salt Lake City, UT 84121
137. Avnet, Inc., 7000 Atrium Way, Suite 4, Mt. Laurel, NJ 8054
138. Avnet, Inc., 12600 E. Arapahoe Road, Suite C, Englewood, CO 80112
139. Avnet, Inc., 2021 Lakeside Blvd., Richardson, TX 75082
140. Avnet, Inc., 12206 E. 51st Street, Suite 103, Tulsa, OK 74146
141. Avnet, Inc., 10 Lanidex Plaza West, Parsippany, NJ 7054
142. Avnet, Inc., 9200 Indian Creek Parkway, Suite 600, Overland Park, KS 66210
143. Avnet, Inc., 20 Sterling Drive, Wallingford, CT 6492

vnet, Inc., 630 W. Carmel Drive, Suite 100, Carmel, IN 46032
145. Avnet, Inc., 30775 Bainbridge Road, Suite 200, Solon, OH 44139
146. Avnet, Inc., 3350 NW 53rd Street, Suite 105-107, Ft. Lauderdale, FL 33069
147. Avnet, Inc., 380 Park Place, Suite 170, Clearwater, FL 33759
148. Avnet, Inc., 4975 Bradford Drive, Suite 100, Huntsville, AL 35805
149. Avnet, Inc., 430 Exchange, Suite 100, Irvine, CA 92602
150. Avnet, Inc., 1526 Bori Street, Urb. Belisa, San Juan, PR 927
151. Avnet, Inc., 580 Menlo Drive, Suite 2, Rocklin, CA 95677
152. Avnet, Inc., 15580 S. W. Jay Street, Beaverton, OR 97006
153. Avnet, Inc., 8214 154th Avenue, N.E., Redmond, WA 98052
154. Avnet, Inc., 21155 Califa Street, Woodland Hills, CA 91367
155. Avnet, Inc., 10805 Rancho Bernardo Road, Suite 110, San Diego, CA 92127
156. Avnet, Inc., 9200 Indian Creek Parkway, Suite 600, Overland Park, KS 66210
157. Avnet, Inc., 20 Sterling Drive, Wallingford, CT 6492
158. Avnet, Inc., 3450 Corporate Way, Suite A, Duluth, GA 30096
159. Digi-Key, 701 Brooks Ave., South, Thief River Falls, MN 56701
160. Jaco Electronics, Inc., 1247 Highland Ave., Suite 201, Cheshire, CT 6410
161. Jaco Electronics, Inc., 12729 Racetrack Road, Tampa, FL 33626
162. Jaco Electronics, Inc., 4930 A Corporate Drive, Huntsville, AL 35805
163. Jaco Electronics, Inc., 600 Tollgate Road, Suite C, Elgin, IL 60123
164. Jaco Electronics, Inc., 145 Oser Avenue, Hauppauge, L.I., NY 11788
165. Jaco Electronics, Inc., 508 Twilight Trail, Suite 201, Richardson, TX 75080
166. Jaco Electronics, Inc., 2250 Satellite Blvd., Suite 100, Duluth, GA 30097
167. Jaco Electronics, Inc., 4900 S.W. Griffith Dr., Suite 250, Beaverton, OR 97005
168. Jaco Electronics, Inc., 10260 Old Columbia Rd., Suite I, Columbia, MD 21046
169. Jaco Electronics, Inc., 124 Grove Street, Suite 300, Franklin, MA 2038
170. Jaco Electronics, Inc., 2401 Pilot Knob Road, Suite 120, Mendota Heights, MN 55120
171. Jaco Electronics, Inc., 9449 Balboa Ave., Suite 103, San Diego, CA 92123
172. Jaco Electronics, Inc., 2260 Townsgate Road, Suite 100, Westlake Village, CA 91361
173. Jaco Electronics, Inc., 521 South 48th Street, #104, Tempe, AZ 85281
174. Jaco Electronics, Inc., 9035 Wadsworth Parkway, Suite 1240, Westminster, CO 80021
175. Jaco Electronics, Inc., 409 5th Place , Sultan, WA 98294
176. Jaco Electronics, Inc., 2362-C Qume Drive, San Jose, CA 95131
177. Jaco Electronics, Inc., 15265 Alton Parkway, Suite 400, Irvine, CA 92618
178. Jaco Electronics, Inc., 1191 E. Newport Center Dr., Suite 204, Deerfield Beach, FL 33442
179. Jaco Electronics, Inc., 187 Ballardvale Street, Suite B209, Wilmington, MA 1877
180. Jaco de Mexico, 13706 N. Highway 183, Suite 216, Austin, TX 78750
181. KEMET Direct, 2835 KEMET Way, Greenville, SC 29681
182. Mouser Electronics, a TTI Company, 1810 Gillespie Way, Suite 101, El Cajon, CA 92020
183. Mouser Electronics, a TTI Company, 1000 N. Main Street, Mansfield, TX 76063-1511
184. Mouser Electronics, a TTI Company, 382 Rt 46, Suite 1 and 2, Budd Lake, NJ 7828
185. Newark InOne, 6811 W. 63rd Street, Suite 305, Overland Park, KS 66202-4080
186. Newark InOne, 1600 W. Broadway Road, Suite 290, Tempe, AZ 85282-1136
187. Newark InOne, 3600 West Bayshore Road, Suite 104, Palo Alto, CA 94303-4229
188. Newark InOne, 5750 New King Street, Suite 360, Troy, MI 48098
189. Newark InOne, 11555 N. Meridian Street, Suite 520, Carmel, IN 46032
190. Newark InOne, 1400 Commerce Center Drive, Suite E, Franklin, OH 45005
191. Newark InOne, 6400 Rockside Road, Independence, OH 44103-3780
192. Newark InOne, 9041 Executive Park Drive, Suite 702, Knoxville, TN 37923-4622
193. Newark InOne, 150 West Park Loop, Suite 110, Huntsville, AL 35806-1744
194. Newark InOne, 5601 Mariner Street, Suite 104, Tampa, FL 33609-3416
195. Newark InOne, 3230 West Commercial Blvd., Suite 300, Ft. Lauderdale, FL 33309-3400
196. Newark InOne, 1701 Pinecroft Road, Suite 101, Greensboro, NC 27407-3855
197. Newark InOne, 1504 Santa Rosa Road, Suite 115, Richmond, VA 23229-1504
198. Newark InOne, 7272 Park Circle Drive, Suite 260, Hanover, MD 21076-1371
199. Newark InOne, 2458 Old Dorsett Road Suite 205, Maryland Heights, MO 63043
200. Newark InOne, 4801 North Ravenswood Avenue, Chicago, IL 60640
201. Newark InOne, 1919 S. Highland Ave. A320, Lombard, IL 60148-6119
202. Newark InOne, 2021 E. Hennepin Ave., Suite 530, Minneapolis, MN 55413-2722
203. Newark InOne, 59 Composite Way, Suite 200, Boston, MA 01851-5150
204. Newark InOne, 65 Boston Post Road West, Marlborough, MA 01752-1854
205. Newark InOne, 9444 Waples Street, Suite 480, San Diego, CA 92121-2939
206. Newark InOne, 550 St. Charles Drive, Suite 200, Thousand Oaks, CA 91360-5828
207. Newark InOne, 4725 Paris Street, Suite 100, Denver, CO 80239-2803
208. Newark InOne, 501 Office Center Drive, Suite 410, Fort Washington, PA 19034-3211
209. Newark InOne, 100 High Tower Blvd., 1st Floor, Pittsburgh, PA 15205-1134
210. Newark InOne, 7449 Morgan Road, 1st Floor, Liverpool, NY 13090-3901
211. Newark InOne, 4250 Veterans Memorial Hwy. Suite 301, Holbrook, NY 11741
212. Newark InOne, 197 Highway 18 South, Suite 205, East Brunswick, NJ 08816-1440
213. Newark InOne, 7500 Viscount Ave., Suite 292, El Paso, TX 79925-5694
214. Newark InOne, 3737 Executive Center Drive, Suite 105, Austin, TX 78731-1632
215. Newark InOne, 719 Sawdust Road, Suite 207, Spring, TX 77380-2910
216. Newark InOne, 6443 SW Beaverton Hillsdale Hwy., Suite 330, Portland, OR 97221
217. Newark InOne, 2020 Hurley Way, Suite 310, Sacramento, CA 95825-3214
218. Newark InOne, 1080 Woodcock Road, Suite 111, Orlando, FL 32803-3514

d Heights, MO 63043
219. Newark InOne, 4801 North Ravenswood Avenue, Chicago, IL 60640
220. Newark InOne, 1919 S. Highland Ave. A320, Lombard, IL 60148-6119
221. Newark InOne, 2021 E. Hennepin Ave., Suite 530, Minneapolis, MN 55413-2722
222. Newark InOne, 2601 Crossroads Drive, Suite 100, Madison, WI 53718-7923
223. Newark InOne, 1020 Innovation Drive, Suite 550, Milwaukee, WI 53226-1403
224. Newark InOne, 12880 Hillcrest Road, Suite 115, Dallas, TX 75230-1501
225. Newark InOne, 7500 Viscount Ave., Suite 292, El Paso, TX 79925-5694
226. PUI (Projections Unlimited, Inc.), 7412 Doswell Lane, Austin, TX 78739
227. PUI (Projections Unlimited, Inc.), 1605 A South Main Street, Milpitas, CA 95035
228. PUI (Projections Unlimited, Inc.), 14831 Myford Road, Tustin, CA 92780
229. PUI (Projections Unlimited, Inc.), 14831 Myford Road, Tustin, CA 92780
230. PUI (Projections Unlimited, Inc.), 845 Woburn Street, Wilmington, MA 1887
231. Spirit Electronics, Inc., 23910 North 19th Avenue, Suite 26, Phoenix, AZ 85085
232. SpotComponents, LLC, 1463 Diamond Ridge Circle, Castle Rock, CO 80108
233. Surface Mount Distribution, Inc., 110 Daniel Webster Highway, Nashua, NH 3060
234. Surface Mount Distribution, Inc., 1471 Big Basin Drive, Milpitas, CA 95035
235. Surface Mount Distribution, Inc., 509 Bryn Mawr Avenue, Bala Cynwyd, PA 19004
236. Surface Mount Distribution, Inc., 1 Oldfield, Irvine, CA 92618
237. Surface Mount Distribution, Inc., 16994 Alpenhorn Court, Punta Gorda, FL 33955
238. Surface Mount Distribution, Inc., 638 South Military Train, Deerfield Beach, FL 33442
239. TTI Integrated Logistic Services, 5050 Mark IV Parkway, Fort Worth, TX 76106
240. TTI, Inc., 5810 Hoffner Ave., Suite 801, Orlando, FL 32822
241. TTI, Inc., 5410 Transportation Blvd., Bldg. 2, Ste. 1, Garfield Heights, OH 44125
242. TTI, Inc., 150 W. Park Loop, Suite 201, Huntsville, AL 35806
243. TTI, Inc., 11121 Willows Road, N.E., Suite 130, Redmond, WA 98052
244. TTI, Inc., 7185 S.W. Sandburg Road, Suite 202, Tigard, OR 97223
245. TTI, Inc., Suite A 6611 Folsom-Auburn Road, Folsom, CA 95630
246. TTI, Inc., 48371 Fremont Blvd., Suite 107, Fremont, CA 94538
247. TTI, Inc., 14511 Myford Road, Suite 210, Tustin, CA 92780
248. TTI, Inc., 4805 Green Road, Suite 120, Raleigh, NC 27616
249. TTI, Inc., 6304 Woodside Court, Suite 115, Columbia, MD 21046
250. TTI, Inc., Three Highwood Drive, Tewksbury, MA 1876
251. TTI, Inc., 921 S. 2nd Street, Ronkonkoma, NY 11779
252. TTI, Inc., 2445 S. 179th Street, Unit B, New Berlin, WI 53146
253. TTI, Inc., 4425 West Airport Freeway, Suite 200, Irving, TX 76118
254. TTI, Inc., 2441 Northeast Parkway, Fort Worth, TX 76106-1896
255. TTI, Inc., 9300 W. 110th St., Suite 645, Kansas City, KS 66210
256. TTI, Inc., 8 Fairfield Blvd., Wallingford, CT 6492
257. TTI, Inc., 13220 Evening Creek Dr., South, Suite 101, San Diego, CA 92128
258. TTI, Inc., 9121 Oakdale Ave., Suite 200, Chatsworth, CA 91311
259. TTI, Inc., 4625 S. Wendler Drive, Suite 108, Tempe, AZ 85282
260. TTI, Inc., 1 Executive Drive, Suite 9, Moorestown, NJ 8057
261. TTI, Inc., 1435 Plum Grove Road, Suite D, Schaumburg, IL 60173
262. TTI, Inc., 10925 Valley View Rd., Suite 100, Eden Prairie, MN 55344
263. TTI, Inc., 8501 Turnpike Drive, Westpark Office Center, Suite 100, Westminster, CO 80031-2929
264. TTI, Inc., 5910 Courtyard Drive, Suite 235, Austin, TX 78731
265. TTI, Inc., 10625 Richmond Avenue, Suite 100, Houston, TX 77042
266. TTI, Inc., 10564 Success Lane, Dayton, OH 45458
267. Tonar Industries, 419 Franklin Avenue, Rockaway, NJ 7866
268. Tri Star (Sierra-KD Product only), 3610 Willowbend Street, Suite 1020, Houston, TX 77054-1113

Manufacturer: Vishay Israel, Ltd. (CAGE Code: SH905)

Location: Vishay Dimona, Dimona Industrial Zone, Dimona 86000, Israel

Plant Location: Same Address as Manufacturer

Distributor Locations:
1. Arrow Electronics, Inc., 7459 S. Lima Street, Englewood, CO 80112, US
2. Avnet, Inc., 2211 S. 47th Street, Phoenix, AZ 85034, US
3. Avnet, Inc., 2617 S. 46th Street, Phoenix, AZ 85034, US
4. Ecomal Israel, Ltd., 14 Altalef Street, Yehud, 56216, Israel
5. Jaco Electronics, 145 Oser Avenue, Hauppauge, NY 11787, US
6. New Yorker Electronics, 209 Industrial Parkway, Northvale, NJ 07647, US
7. Spirit Electronics, 15150 N. Hayden Road, Suite 104, Scottsdale, AZ 88260, US