

**Specification Details:**

Specification: MIL-PRF-39022  
 Title: Capacitor, Fixed, Metallized, (Paper-Plastic or Plastic) Film Dielectric, A.C./D.C. (Hermetically Sealed in Metal or Ceramic Cases)  
 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: No  
 Specification contains space level reliability requirements: No  
 Specification allows test optimization: Yes

**Contact Information:**

DSCC Office of Primary Involvement: Passive Devices Team, DSCC-VQP  
 Primary DSCC-VQ Contact: 614-692-0665, e-mail: vqp.go@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:**

**M39022/01-1261**

| Performance Specification Number | Specification Sheet Number | Nonsignificant Dash Number |
|----------------------------------|----------------------------|----------------------------|
| M39022                           | /01                        | -1261                      |

**Part Listings:**

| GOVERNMENT DESIGNATION   | MANUFACTURER'S DESIGNATION OR TYPE NUMBER | TEST OR QUALIFICATION REFERENCE | SPECIFICATION SHEET | SUPPLIER'S NAME (ADDRESS ON LAST PAGE) |
|--|---|---------------------------------|---------------------|--|
| <b>CHR09*</b>  |   |                                 |                     |  |
| Cap values 0.01 uf thru 12 uf; 50 volts; tols. K, J; life failure rates M, P, R; circuit 1, 3            | CHR09                                     | 39022-913-71                    | /1                  | Dearborn Electronics, Inc.             |
| Cap values 0.1 uf thru 12 uf; 200 volts; tols. J, K; life failure rates M, P, R; circuit 1, 3            | CHR09                                     | 39022-913-71                    | /1                  | Dearborn Electronics, Inc.             |
| Cap values 0.04 uf thru 3.3 uf; 400 volts; tols. K, J; life failure rates M, P, R; circuit 1, 3          | CHR09                                     | 39022-913-71                    | /1                  | Dearborn Electronics, Inc.             |
| Cap values 0.01 uf thru 2.2 uf; 600 volts; tols. K, J; life failure rates M, P, R; circuit 1, 3          | CHR09                                     | 39022-913-71                    | /1                  | Dearborn Electronics, Inc.             |
| <b>CHR10*</b>  |   |                                 |                     |  |
| Cap values 0.04 uf thru 22 uf; 50 volts; tols. K, J, G, F; life failure rates M, P, R, S; circuit 1, 3   | LP9                                       | 39022-335-72                    | /10                 | Dearborn Electronics, Inc.             |
| Cap values 0.01 uf thru 22 uf; 100 volts; tols. K, J, G, F; life failure rates M, P, R, S; circuit 1, 3  | LP9                                       | 39022-335-72                    | /10                 | Dearborn Electronics, Inc.             |
| Cap values 0.01 uf thru 10 uf; 200 volts; tols. K, J, G, F; life failure rates M, P, R, S; circuit 1, 3  | LP9                                       | 39022-335-72                    | /10                 | Dearborn Electronics, Inc.             |
| Cap values 0.01 uf thru 3.9 uf; 300 volts; tols. K, J, G, F; life failure rates M, P, R, S; circuit 1, 3 | LP9                                       | 39022-335-72                    | /10                 | Dearborn Electronics, Inc.             |
| Cap values 0.01 uf thru 2.7 uf; 400 volts; tols. K, J, G, F; life failure rates M, P, R, S; circuit 1, 3 | LP9                                       | 39022-335-72                    | /10                 | Dearborn Electronics, Inc.             |
| Cap values 0.01 uf thru 1 uf; 600 volts; tols. K, J, G, F; life failure rates M, P, R, S; circuit 1, 3   | LP9                                       | 39022-335-72                    | /10                 | Dearborn Electronics, Inc.             |
| Cap values 0.04 uf thru 22 uf; 50 volts; tols. K, J, G, F; life failure rates M, P, R; circuit 1, 3      | CHR10                                     | 83421-431-83                    | /10                 | Electronic Concepts, Inc.              |

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| <b>CHR10*</b>   |   |                                 |                     |  |
| Cap values 0.01 uf thru 22 uf; 100 volts; tols. K, J, G, F; life failure rates M, P, R; circuit 1, 3  | CHR10                                     | 83421-431-83                    | /10                 | Electronic Concepts, Inc.              |
| Cap values 0.01 uf thru 10 uf; 200 volts; tols. K, J, G, F; life failure rates M, P, R; circuit 1, 3  | CHR10                                     | 83421-431-83                    | /10                 | Electronic Concepts, Inc.              |
| Cap values 0.01 uf thru 3.9 uf; 300 volts; tols. J, G, F, K; life failure rates M, P, R; circuit 1, 3 | CHR10                                     | 83421-431-83                    | /10                 | Electronic Concepts, Inc.              |
| Cap values 0.01 uf thru 2.7 uf; 400 volts; tols. K, J, G, F; life failure rates M, P, R; circuit 1, 3 | CHR10                                     | 83421-431-83                    | /10                 | Electronic Concepts, Inc.              |
| Cap values 0.01 uf thru 1 uf; 600 volts; tols. K, J, G, F; life failure rates M, P, R; circuit 1, 3   | CHR10                                     | 83421-431-83                    | /10                 | Electronic Concepts, Inc.              |
| <b>CHR12*</b>   |   |                                 |                     |  |
| Cap values 0.15 uf thru 12 uf; 50 volts; tols. K, J; life failure rates M, P, R; circuit 1, 3         | CHR12                                     | 39022-913-71                    | /8                  | Dearborn Electronics, Inc.             |
| Cap values 0.1 uf thru 12 uf; 200 volts; tols. K, J; life failure rates M, P, R; circuit 1, 3         | CHR12                                     | 39022-913-71                    | /8                  | Dearborn Electronics, Inc.             |
| Cap values 0.04 uf thru 3.3 uf; 400 volts; tols. K, J; life failure rates M, P, R; circuit 1, 3       | CHR12                                     | 39022-913-71                    | /8                  | Dearborn Electronics, Inc.             |
| Cap values 0.01 uf thru 2.2 uf; 600 volts; tols. K, J; life failure rates M, P, R; circuit 1, 3       | CHR12                                     | 39022-913-71                    | /8                  | Dearborn Electronics, Inc.             |
| <b>CHR19*</b>   |   |                                 |                     |  |
| Cap values 0.1 uf thru 8.2 uf; 200 volts; tols. K, J; life failure rates M, P, R; circuit 1, 3        | CHR19                                     | 39022-913-71                    | /2                  | Dearborn Electronics, Inc.             |
| Cap values 0.04 uf thru 3.3 uf; 400 volts; tols. K, J; life failure rates M, P, R; circuit 1, 3       | CHR19                                     | 39022-913-71                    | /2                  | Dearborn Electronics, Inc.             |
| <b>CHR20*</b>   |   |                                 |                     |  |
| Cap values 0.03 uf thru 1 uf; 30 volts; tols. K, J, G, F; life failure rates M                        | CHR20                                     | 39022-36-88                     | /11                 | Electronic Concepts, Inc.              |
| <b>CHR21*</b>   |   |                                 |                     |  |
| Cap values 0.01 uf thru 0.68 uf; 50 volts; tols. K, J, G, F; life failure rates M                     | CHR21                                     | 39022-101-93                    | /11                 | Electronic Concepts of Europe          |
| Cap values 0.01 uf thru 0.68 uf; 50 volts; tols. K, J, G, F; life failure rates M                     | CHR21                                     | 39022-36-88, 39022-101-93       | /11                 | Electronic Concepts, Inc.              |
| <b>CHR22*</b>   |   |                                 |                     |  |
| Cap values 0.006 uf thru 0.22 uf; 100 volts; tols. K, J, G, F; life failure rates M                   | CHR22                                     | 39022-101-93                    | /11                 | Electronic Concepts of Europe          |
| Cap values 0.006 uf thru 0.22 uf; 100 volts; tols. K, J, G, F; life failure rates M                   | CHR22                                     | 39022-36-88, 39022-101-93       | /11                 | Electronic Concepts, Inc.              |
| <b>CHR23*</b>   |   |                                 |                     |  |
| Cap values 0.003 uf thru 0.1 uf; 150 volts; tols. K, J, G, F; life failure rates M                    | CHR23                                     | 39022-101-93                    | /11                 | Electronic Concepts of Europe          |
| Cap values 0.003 uf thru 0.1 uf; 150 volts; tols. K, J, G, F; life failure rates M                    | CHR23                                     | 39022-36-88, 39022-101-93       | /11                 | Electronic Concepts, Inc.              |
| <b>CHR24*</b>   |   |                                 |                     |  |
| Cap values 0.002 uf thru 0.06 uf; 200 volts; tols. K, J, G, F; life failure rates M                   | CHR24                                     | 39022-101-93                    | /11                 | Electronic Concepts of Europe          |
| Cap values 0.002 uf thru 0.06 uf; 200 volts; tols. K, J, G, F; life failure rates M                   | CHR24                                     | 39022-36-88, 39022-101-93       | /11                 | Electronic Concepts, Inc.              |
| <b>CHR25*</b>   |   |                                 |                     |  |
| Cap values 0.001 uf thru 0.03 uf; 300 volts; tols. K, J, G, F; life failure rates M                   | CHR25                                     | 39022-101-93                    | /11                 | Electronic Concepts of Europe          |
| Cap values 0.001 uf thru 0.03 uf; 300 volts; tols. K, J, G, F; life failure rates M                   | CHR25                                     | 39022-36-88, 39022-101-93       | /11                 | Electronic Concepts, Inc.              |

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| <b>CHR26*</b>   |   |                                 |                     |  |
| Cap value 10 uf; 80 volts; tols. K; life failure rates M, P, R, S                         | 859P                                      | 39022-059-00, 39022-060-00      | /12                 | Dearborn Electronics, Inc.             |
| Cap value 9 uf; 90 volts; tols. K; life failure rates M, P, R, S                          | 859P                                      | 39022-059-00, 39022-060-00      | /12                 | Dearborn Electronics, Inc.             |
| Cap value 8 uf; 100 volts; tols. K; life failure rates M, P, R, S                         | 859P                                      | 39022-059-00, 39022-060-00      | /12                 | Dearborn Electronics, Inc.             |
| Cap value 6.8 uf; 110 volts; tols. K; life failure rates M, P, R, S                       | 859P                                      | 39022-059-00, 39022-060-00      | /12                 | Dearborn Electronics, Inc.             |
| Cap value 4.7 uf; 130 volts; tols. K; life failure rates M, P, R, S                       | 859P                                      | 39022-059-00, 39022-060-00      | /12                 | Dearborn Electronics, Inc.             |
| Cap value 4 uf; 135 volts; tols. K; life failure rates M, P, R, S                         | 859P                                      | 39022-059-00, 39022-060-00      | /12                 | Dearborn Electronics, Inc.             |
| Cap value 3.3 uf; 140 volts; tols. K; life failure rates M, P, R, S                       | 859P                                      | 39022-059-00, 39022-060-00      | /12                 | Dearborn Electronics, Inc.             |
| Cap value 2.5 uf; 145 volts; tols. K; life failure rates M, P, R, S                       | 859P                                      | 39022-059-00, 39022-060-00      | /12                 | Dearborn Electronics, Inc.             |
| Cap value 2.2 uf; 150 volts; tols. K; life failure rates M, P, R, S                       | 859P                                      | 39022-059-00, 39022-060-00      | /12                 | Dearborn Electronics, Inc.             |
| Cap value 1.5 uf; 155 volts; tols. K; life failure rates M, P, R, S                       | 859P                                      | 39022-059-00, 39022-060-00      | /12                 | Dearborn Electronics, Inc.             |
| Cap values 0.1 uf thru 1 uf; 165 volts; tols. K; life failure rates M, P, R, S            | 859P                                      | 39022-059-00, 39022-060-00      | /12                 | Dearborn Electronics, Inc.             |
| Cap value 2.2 uf; 200 volts; tols. K; life failure rates M, P, R, S                       | 859P                                      | 39022-059-00, 39022-060-00      | /12                 | Dearborn Electronics, Inc.             |
| Cap value 1.5 uf; 235 volts; tols. K; life failure rates M, P, R, S                       | 859P                                      | 39022-059-00, 39022-060-00      | /12                 | Dearborn Electronics, Inc.             |
| Cap value 1 uf; 270 volts; tols. K; life failure rates M, P, R, S                         | 859P                                      | 39022-059-00, 39022-060-00      | /12                 | Dearborn Electronics, Inc.             |
| Cap value 0.82 uf; 280 volts; tols. K; life failure rates M, P, R, S                      | 859P                                      | 39022-059-00, 39022-060-00      | /12                 | Dearborn Electronics, Inc.             |
| Cap value 0.68 uf; 290 volts; tols. K; life failure rates M, P, R, S                      | 859P                                      | 39022-059-00, 39022-060-00      | /12                 | Dearborn Electronics, Inc.             |
| Cap value 0.56 uf; 295 volts; tols. K; life failure rates M, P, R, S                      | 859P                                      | 39022-059-00, 39022-060-00      | /12                 | Dearborn Electronics, Inc.             |
| Cap values 0.1 uf thru 0.47 uf; 300 volts; tols. K; life failure rates M, P, R, S         | 859P                                      | 39022-059-00, 39022-060-00      | /12                 | Dearborn Electronics, Inc.             |
| Cap values 0.56 uf thru 0.68 uf; 350 volts; tols. K; life failure rates M, P, R, S        | 859P                                      | 39022-059-00, 39022-060-00      | /12                 | Dearborn Electronics, Inc.             |
| Cap values 0.39 uf thru 0.47 uf; 370 volts; tols. K; life failure rates M, P, R, S        | 859P                                      | 39022-059-00, 39022-060-00      | /12                 | Dearborn Electronics, Inc.             |
| Cap values 0.27 uf thru 0.33 uf; 380 volts; tols. K; life failure rates M, P, R, S        | 859P                                      | 39022-059-00, 39022-060-00      | /12                 | Dearborn Electronics, Inc.             |
| Cap values 0.18 uf thru 0.22 uf; 385 volts; tols. K; life failure rates M, P, R, S        | 859P                                      | 39022-059-00, 39022-060-00      | /12                 | Dearborn Electronics, Inc.             |
| Cap values 0.12 uf thru 0.15 uf; 390 volts; tols. K; life failure rates M, P, R, S        | 859P                                      | 39022-059-00, 39022-060-00      | /12                 | Dearborn Electronics, Inc.             |
| Cap values 0.01 uf thru 0.1 uf; 400 volts; tols. K; life failure rates M, P, R, S         | 859P                                      | 39022-059-00, 39022-060-00      | /12                 | Dearborn Electronics, Inc.             |
| <b>CHR27*</b>   |   |                                 |                     |  |
| Cap values 0.04 uf thru 22 uf; 50 volts; tols. K, J, G, F; life failure rates M, P, R, S  | 820P                                      | 39022-059-00, 39022-060-00      | /13                 | Dearborn Electronics, Inc.             |
| Cap values 0.01 uf thru 22 uf; 100 volts; tols. K, J, G, F; life failure rates M, P, R, S | 820P                                      | 39022-059-00, 39022-060-00      | /13                 | Dearborn Electronics, Inc.             |
| Cap values 0.01 uf thru 10 uf; 200 volts; tols. K, J, G, F; life failure rates M, P, R, S | 820P                                      | 39022-059-00, 39022-060-00      | /13                 | Dearborn Electronics, Inc.             |

| GOVERNMENT<br>DESIGNATION  | MANUFACTURER'S<br>DESIGNATION OR<br>TYPE NUMBER | TEST OR<br>QUALIFICATION<br>REFERENCE | SPECIFI-<br>CATION<br>SHEET | SUPPLIER'S NAME<br>(ADDRESS ON LAST PAGE) |
|--|---|---------------------------------------|-----------------------------|---|
| <b>CHR27*</b>  |   |                                       |                             |   |
| Cap values 0.01 uf thru 3.9 uf; 300 volts; tols. K, J, G, F; life failure rates M, P, R, S | 820P  | 39022-059-00, 39022-060-00            | /13                         | Dearborn Electronics, Inc.                |
| Cap values 0.01 uf thru 2.7 uf; 400 volts; tols. K, J, G, F; life failure rates M, P, R, S | 820P  | 39022-059-00, 39022-060-00            | /13                         | Dearborn Electronics, Inc.                |
| Cap values 0.01 uf thru 1 uf; 600 volts; tols. K, J, G, F; life failure rates M, P, R, S   | 820P  | 39022-059-00, 39022-060-00            | /13                         | Dearborn Electronics, Inc.                |

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**Manufacturer and Supplier Location Information**

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**Manufacturer: Dearborn Electronics, Inc. (CAGE Code: 01884)**

Location: 1221 N. Highway 17/92, Longwood, FL 32750-3739, US

Plant Location: Same Address as Manufacturer

Assembly Plant Location: Same Address as Manufacturer

**CATEGORY A****Distributor Locations:**

1. Arrow Electronics, 665 Maestro Drive, Reno, NV 89511, US
2. New Yorker Electronics, 420 Center Avenue, Mamaroneck, NY 10543, US
3. Spirit Electronics, 7432 E. Tierra Buena Lane, Scottsdale, AZ 85260, US
4. T.T.I., Inc., 2441 Northeast Parkway, Fort Worth, TX 76106, US

**Manufacturer: Electronic Concepts, Inc. (CAGE Code: 50558)**

Location: 1278, 526 Industrial Way West, Eatontown, NJ 07724-2212, US

**Plant Locations:**

1. Same Address as Manufacturer
2. Electronic Concepts of Europe, Ltd., CAGE Code: 50558, IDA Estate, Oughterard, Co. Galway, Ireland

Assembly Plant Location: Same Address as Manufacturer

**CATEGORY A**

Distributor Location: Elcon Sales Company, 470 Clifton Avenue, Clifton, NJ 07011, US