

**DLA Land and Maritime - VQ**  
**Supplemental Information Sheet for Electronic QPL-20**

Date: 4/2/2020

**Specification Details:**

Specification: MIL-PRF-20  
 Title: Capacitor, Fixed, Ceramic Dielectric, Temperature Compensating  
 Federal Supply Class (FSC): 5910  
 Conventional: Yes  
 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: No

**Contact Information:**

Office of Primary Involvement: Passive Devices Branch, DLA Land and Maritime - VQP  
 Primary Qualifying Activity Contact: 614-692-2063, e-mail: vqp.ahc@dla.mil  
 Secondary Qualifying Activity Contact: 614-692-0609, e-mail: vqp.do@dla.mil

**Notes:**

Contact the manufacturer or refer to the manufacturers website for a list of Authorized Distributors.

**Part Configuration:**

ER: CCR75CH1R0CMV

| Style | Characteristic | Capacitance Value | Capacitance Tolerance | Product Level Designator | Standoff Option |
|-------|----------------|-------------------|-----------------------|--------------------------|-----------------|
| CCR75 | CH             | 1R0               | C                     | M                        | V               |

Non-ER: CC75 CH 1R0 C

| Style | Characteristic | Capacitance Value | Capacitance Tolerance |
|-------|----------------|-------------------|-----------------------|
| CC75  | CH             | 1R0               | C                     |

| PART LISTINGS                                                                                                                                 |                                           |                                     |                     |                                            |
|-----------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------|-------------------------------------|---------------------|--------------------------------------------|
| GOVERNMENT DESIGNATION                                                                                                                        | MANUFACTURER'S DESIGNATION OR TYPE NUMBER | TEST OR QUALIFICATION REFERENCE     | SPECIFICATION SHEET | SUPPLIER'S NAME (ADDRESS ON LAST PAGE)     |
| <b>CC05</b>                                                                                                                                   |                                           |                                     |                     |                                            |
| Chars. CG, CH, CJ, CK, CX; voltage 50, 100, 200; cap. values 1 pF thru 3300 pF; tols. B, C, D, F, G, J                                        | MR05-CC-5, MR05-CC05                      | 20-5332-19                          | /35                 | AVX Corporation<br>Avio Excelente SA de CV |
| <b>CC05</b>                                                                                                                                   |                                           |                                     |                     |                                            |
| Chars. CG, CH, CJ, CK, CX; voltage 50, 100, 200; cap. values 1 pF thru 3300 pF; tols. B, C, D, F, G, H                                        | C052G                                     | 20-1102-73; 20-488-88               | /35                 | Kemet Electronics Corporation              |
| <b>CCR05*</b>                                                                                                                                 |                                           |                                     |                     |                                            |
| Chars. CG, CH, CJ, CK, CX; voltage 50, 100, 200; cap. values 1 pF thru 3300 pF; tols. B, C, D, F, G, J; standoffs V; product level M, P, R, S | MR-55, MR05-CCR05                         | 20-395-88; 20-5332-19; 39014-28-96; | /35                 | AVX Corporation<br>Avio Excelente SA de CV |
| <b>CCR05*</b>                                                                                                                                 |                                           |                                     |                     |                                            |
| Chars. CG, CH, CJ, CK, CX; voltage 50, 100, 200; cap. values 1 pF thru 3300 pF; tols. B, C, D, F, G, J; standoffs V; product level M, P, R, S | C052G, C056G                              | 20-1102-73; 20-389-88               | /35                 | Kemet Electronics Corporation              |
| <b>CC06</b>                                                                                                                                   |                                           |                                     |                     |                                            |
| Chars. CG; voltage 50, 100, 200; cap. values 360 pF thru 18000 pF; tols. F, G, J, K                                                           | MR06-CC06                                 | 20-5332-19; 20-553-86;              | /36                 | AVX Corporation<br>Avio Excelente SA de CV |
| <b>CC06</b>                                                                                                                                   |                                           |                                     |                     |                                            |
| Chars. CG; voltage 50, 100, 200; cap. values 360 pF thru 18000 pF; tols. F, G, J, K                                                           | C062G                                     | 20-1102-73; 20-489-88               | /36                 | Kemet Electronics Corporation              |

| PART LISTINGS                                                                                                                                          |                                                 |                                                    |                             |                                            |
|--------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------|----------------------------------------------------|-----------------------------|--------------------------------------------|
| 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>CCR06*</b><br>Chars. CG; voltage 50, 100, 200; cap. values 360 pF<br>thru 18000 pF; tols. F, G, J, K; standoffs V;product level<br>M, P, R, S       | HRM06, MR-66,<br>MR06-CCR06                     | 20-1089-80; 20-<br>396-88; 20-5332-<br>19          | /36                         | AVX Corporation<br>Avio Excelente SA de CV |
| <b>CCR06*</b><br>Chars. CG; voltage 50, 100, 200; cap. values 360 pF<br>thru 18000 pF; tols. F, G, J, K; standoffs V;product level<br>M, P, R, S       | C062G, C066G                                    | 20-1102-73; 20-<br>390-88                          | /36                         | Kemet Electronics Corporation              |
| <b>CC07</b><br>Chars. CG; voltage 50, 100, 200; cap. values 2200 pF<br>thru 100000 pF; tols. F, G, J, K                                                | MR07-CC07                                       | 20-083-97; 20-<br>141-74; 20-5332-<br>19; 20-93-96 | /37                         | AVX Corporation<br>Avio Excelente SA de CV |
| <b>CC07</b><br>Chars. CG; voltage 50, 100, 200; cap. values 2200 pF<br>thru 100000 pF; tols. F, G, J, K                                                | C512G                                           | 20-1103-73                                         | /37                         | Kemet Electronics Corporation              |
| <b>CCR07*</b><br>Chars. CG; voltage 50, 100, 200; cap. values 2200 pF<br>thru 100000 pF; tols. F, G, J, K;product level M, P, R, S                     | MR07-CCR07                                      | 20-141-74; 20-<br>5332-19; 20-93-<br>96            | /37                         | AVX Corporation<br>Avio Excelente SA de CV |
| <b>CCR07*</b><br>Chars. CG; voltage 50, 100, 200; cap. values 2200 pF<br>thru 100000 pF; tols. F, G, J, K;product level M, P, R, S                     | C512G                                           | 20-1103-73                                         | /37                         | Kemet Electronics Corporation              |
| <b>CC08</b><br>Chars. CG; voltage 50, 100, 200; cap. values 3900 pF<br>thru 68000 pF; tols. G, J, K;product level M, P, R, S                           | MR08-CC08                                       | 20-083-97; 20-<br>142-74; 20-5332-<br>19           | /38                         | AVX Corporation<br>Avio Excelente SA de CV |
| <b>CC08</b><br>Chars. CG; voltage 50, 100, 200; cap. values 3900 pF<br>thru 68000 pF; tols. G, J, K                                                    | C522G                                           | 20-1103-73                                         | /38                         | Kemet Electronics Corporation              |
| <b>CCR08*</b><br>Chars. CG; voltage 50, 100, 200; cap. values 3900 pF<br>thru 68000 pF; tols. G, J, K;product level M, P, R, S                         | MR08-CCR08                                      | 20-142-74; 20-<br>5332-19                          | /38                         | AVX Corporation<br>Avio Excelente SA de CV |
| <b>CCR08*</b><br>Chars. CG; voltage 50, 100, 200; cap. values 3900 pF<br>thru 68000 pF; tols. G, J, K                                                  | C522G                                           | 20-1103-73                                         | /38                         | Kemet Electronics Corporation              |
| <b>CC09</b><br>Chars. CG, CH, CJ, CK, CX; voltage 50, 100, 200; cap.<br>values 1 pF thru 3300 pF; tols. B, C, D, F, G, J                               | MR04-CC09                                       | 20-5332-19; 20-<br>733-85; 20-94-96                | /35                         | AVX Corporation<br>Avio Excelente SA de CV |
| <b>CCR09*</b><br>Chars. CG, CH, CJ, CK, CX; voltage 50, 100, 200; cap.<br>values 1 pF thru 3300 pF; tols. B, C, D, F, G, J;product<br>level M, P, R, S | MR04-CCR09                                      | 20-5332-19; 20-<br>94-96; 39014-<br>733-85         | /35                         | AVX Corporation<br>Avio Excelente SA de CV |
| <b>CC75</b><br>Chars. CH, CJ, CK, CX; voltage 200; cap. values 1 pF<br>thru 9.1 pF; tols. C, D                                                         | MA10-CC75                                       | 20-143-74; 20-<br>5332-19                          | /27                         | AVX Corporation<br>Avio Excelente SA de CV |
| <b>CC75</b><br>Chars. CH; voltage 200; cap. values 10 pF thru 18 pF;<br>tol. G, J                                                                      | MA10-CC75                                       | 20-143-74; 20-<br>5332-19                          | /27                         | AVX Corporation<br>Avio Excelente SA de CV |
| <b>CC75</b><br>Chars. CG; voltage 50, 100, 200; cap. values 20 pF thru<br>680 pF; tols. F, G, J                                                        | MA10-CC75                                       | 20-143-74; 20-<br>5332-19                          | /27                         | AVX Corporation<br>Avio Excelente SA de CV |
| <b>CC75</b><br>Chars. CG, CH, CJ, CK, CX; voltage 50, 100, 200; cap.<br>values 1 pF thru 680 pF; tols. B, C, D, F, G, J                                | C114G                                           | 20-1104-73                                         | /27                         | Kemet Electronics Corporation              |
| <b>CC75</b><br>Chars. CG, CH; voltage 50, 100, 200; cap. values 1 pF<br>thru 680 pF; tols. B, C, D, F, G, J                                            | C114G                                           | 20-490-88                                          | /27                         | Kemet Electronics Corporation              |

| PART LISTINGS                                                                                                                   |                                                 |                                       |                             |                                            |
|---------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------|---------------------------------------|-----------------------------|--------------------------------------------|
| 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>CCR75*</b>                                                                                                                   |                                                 |                                       |                             |                                            |
| Chars. CH, CJ, CK, CX; voltage 200; cap. values 1 pF thru 9.1 pF; tols. C, D; product level M, P, R, S                          | MA10-CCR75                                      | 20-143-74; 20-5332-19                 | /27                         | AVX Corporation<br>Avio Excelente SA de CV |
| <b>CCR75*</b>                                                                                                                   |                                                 |                                       |                             |                                            |
| Chars. CH; voltage 200; cap. values 10 pF thru 18 pF; tols. G, J, ; product level M, P, R, S                                    | MA10-CCR75                                      | 20-143-74                             | /27                         | AVX Corporation<br>Avio Excelente SA de CV |
| <b>CCR75*</b>                                                                                                                   |                                                 |                                       |                             |                                            |
| Chars. CG; voltage 50, 100, 200; cap. values 20 pF thru 680 pF; tols. F, G, J; product level M, P, R, S                         | MA10-CCR75                                      | 20-143-74                             | /27                         | AVX Corporation<br>Avio Excelente SA de CV |
| <b>CCR75*</b>                                                                                                                   |                                                 |                                       |                             |                                            |
| Chars. CG, CH, CJ, CK, CX; voltage 50, 100, 200; cap. values 1 pF thru 680 pF; tols. B, C, D, F, G, J; product level M, P, R, S | C114G                                           | 20-1104-73                            | /27                         | Kemet Electronics Corporation              |
| <b>CC76</b>                                                                                                                     |                                                 |                                       |                             |                                            |
| Chars. CG; voltage 50, 100, 200; cap. values 82 pF thru 1000 pF; tols. F, G, J                                                  | MA20-CC76                                       | 20-143-74; 20-5332-19                 | /28                         | AVX Corporation<br>Avio Excelente SA de CV |
| <b>CC76</b>                                                                                                                     |                                                 |                                       |                             |                                            |
| Chars. CG, CH; voltage 50, 100, 200; cap. values 82 pF thru 1000 pF; tols. F, G, J                                              | C124G                                           | 20-1104-73; 20-491-88                 | /28                         | Kemet Electronics Corporation              |
| <b>CCR76*</b>                                                                                                                   |                                                 |                                       |                             |                                            |
| Chars. CG; voltage 50, 100, 200; cap. values 82 pF thru 1000 pF; tols. F, G, J; product level M, P, R, S                        | MA20-CCR76                                      | 20-143-74; 20-5332-19                 | /28                         | AVX Corporation<br>Avio Excelente SA de CV |
| <b>CCR76*</b>                                                                                                                   |                                                 |                                       |                             |                                            |
| Chars. CG; voltage 50, 100, 200; cap. values 82 pF thru 1000 pF; tols. F, G, J; product level M, P, R, S                        | C124G                                           | 20-1104-73                            | /28                         | Kemet Electronics Corporation              |
| <b>CC77</b>                                                                                                                     |                                                 |                                       |                             |                                            |
| Chars. CG; voltage 50, 100, 200; cap. values 150 pF thru 5600 pF; tols. F, G, J, K                                              | MA40-CC77                                       | 20-143-74; 20-5332-19                 | /29                         | AVX Corporation<br>Avio Excelente SA de CV |
| <b>CC77</b>                                                                                                                     |                                                 |                                       |                             |                                            |
| Chars. CG; voltage 50, 100, 200; cap. values 150 pF thru 5600 pF; tols. F, G, J, K                                              | C192G                                           | 20-1104-73; 20-490-88                 | /29                         | Kemet Electronics Corporation              |
| <b>CCR77*</b>                                                                                                                   |                                                 |                                       |                             |                                            |
| Chars. CG; voltage 50, 100, 200; cap. values 150 pF thru 5600 pF; tols. F, G, J, K; product level M, P, R, S                    | MA40-CCR77                                      | 20-143-74; 20-5332-19                 | /29                         | AVX Corporation<br>Avio Excelente SA de CV |
| <b>CCR77*</b>                                                                                                                   |                                                 |                                       |                             |                                            |
| Chars. CG; voltage 50, 100, 200; cap. values 150 pF thru 5600 pF; tols. F, G, J, K; product level M, P, R, S                    | C192G                                           | 20-1104-73                            | /29                         | Kemet Electronics Corporation              |
| <b>CC78</b>                                                                                                                     |                                                 |                                       |                             |                                            |
| Chars. CG; voltage 50, 100, 200; cap. values 820 pF thru 27000 pF; tols. F, G, J, K                                             | MA50-CC78                                       | 20-143-74; 20-5332-19                 | /30                         | AVX Corporation<br>Avio Excelente SA de CV |
| <b>CC78</b>                                                                                                                     |                                                 |                                       |                             |                                            |
| Chars. CG; voltage 50, 100, 200; cap. values 820 pF thru 27000 pF; tols. F, G, J, K                                             | C202G                                           | 20-1105-73                            | /30                         | Kemet Electronics Corporation              |
| <b>CCR78*</b>                                                                                                                   |                                                 |                                       |                             |                                            |
| Chars. CG; voltage 50, 100, 200; cap. values 820 pF thru 27000 pF; tols. F, G, J, K; product level M, P, R, S                   | MA50-CCR78                                      | 20-143-74; 20-5332-19                 | /30                         | AVX Corporation<br>Avio Excelente SA de CV |
| <b>CCR78*</b>                                                                                                                   |                                                 |                                       |                             |                                            |
| Chars. CG; voltage 50, 100, 200; cap. values 820 pF thru 27000 pF; tols. F, G, J, K; product level M, P, R, S                   | C202G                                           | 20-1105-73                            | /30                         | Kemet Electronics Corporation              |
| <b>CC79</b>                                                                                                                     |                                                 |                                       |                             |                                            |
| Chars. CG; voltage 50, 100, 200; cap. values 3900 pF thru 82000 pF; tols. F, G, J, K                                            | MA60-CC79                                       | 20-144-74; 20-5332-19                 | /31                         | AVX Corporation<br>Avio Excelente SA de CV |
| <b>CC79</b>                                                                                                                     |                                                 |                                       |                             |                                            |
| Chars. CG; voltage 50, 100, 200; cap. values 3900 pF thru 82000 pF; tols. F, G, J, K                                            | C222G                                           | 20-1105-73                            | /31                         | Kemet Electronics Corporation              |

| PART LISTINGS                                                                                                 |                                                 |                                       |                             |                                            |
|---------------------------------------------------------------------------------------------------------------|-------------------------------------------------|---------------------------------------|-----------------------------|--------------------------------------------|
| 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>CCR79*</b>                                                                                                 |                                                 |                                       |                             |                                            |
| Chars. CG; voltage 50, 100, 200; cap. values 3900 pF thru 82000 pF; tols. F, G, J, K;product level M, P, R, S | MA60-CCR79                                      | 20-144-74; 20-5332-19                 | /31                         | AVX Corporation<br>Avio Excelente SA de CV |
| <b>CCR79*</b>                                                                                                 |                                                 |                                       |                             |                                            |
| Chars. CG; voltage 50, 100, 200; cap. values 3900 pF thru 82000 pF; tols. F, G, J, K;product level M, P, R, S | C222G                                           | 20-1105-73                            | /31                         | Kemet Electronics Corporation              |

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**Manufacturer and Supplier Location Information**

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**Manufacturer: AVX Corporation (CAGE Code: 6KUV2)**

Location: One AVX Blvd, Fountain Inn, SC 29644-9039, US

Plants:

1. Avio Excelente SA de CV, CAGE: S9915, Avenida San Lorenzo 651, Parque Industrial Omega CP, 32410, Cd Juarez, Chihuahua, Mexico

**Manufacturer: Kemet Electronics Corporation (CAGE Code: 31433)**

Location: 2835 Kemet Way, Simpsonville, SC 29681-2457, US

Plants:

1. Kemet de Mexico, S.A. de C.V., Avenida Eloy Cavazos 7908 Ote., Col. Rancho Viejo, Guadalupe, N.L., C.P. 61750, MX