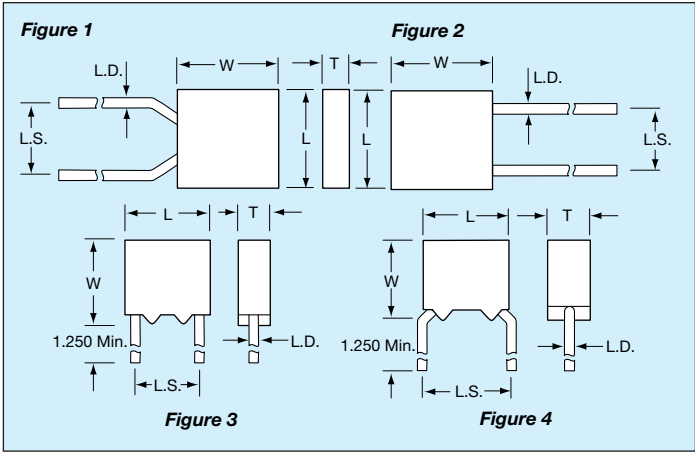




## HOW TO ORDER

### Military Type Designation:

Established Reliability = CCR05, CCR06, CCR07, CCR08, CCR09

Non-Established Reliability = CC05, CC06, CC07, CC08, CC09

### CCR06

#### Style

CC = Identifies temperature compensating, ceramic dielectric, fixed capacitors.  
R = Identifies Established Reliability parts  
06 = Numbers identify shape and dimension

### CG

#### Temperature Characteristic

| Permissible capacitance change from capacitance at +25°C in ppm/°C |                  |          |
|--------------------------------------------------------------------|------------------|----------|
| Characteristic                                                     |                  | Temp.    |
| CX                                                                 | 1/               | +125°C   |
|                                                                    | 1/               | -55°C 2/ |
| CK                                                                 | ±250 ppm/°C      | +125°C   |
|                                                                    | +246.25, -326.25 | -55°C 2/ |
| CJ                                                                 | ±120 ppm/°C      | +125°C   |
|                                                                    | +116.25, -166.25 | -55°C 2/ |
| CH                                                                 | ±60 ppm/°C       | +125°C   |
|                                                                    | +55.00, -91.25   | -55°C 2/ |
| CG                                                                 | ±30 ppm/°C       | +125°C   |
|                                                                    | +27.50, -53.75   | -55°C 2/ |

1/ Not practically measurable.  
2/ The ppm/°C values for -55°C were calculated by dividing ppm by negative 80°C.

### 183

#### Capacitance

First two digits are the significant figures of capacitance. Third digit indicates the additional number of zeros. For example, order 18,000 pF as 183. (For values below 10pF use "R" in place of decimal point, e.g., 1R4 = 1.4pF)

### J

#### Capacitance Tolerance

C = ±0.25pF  
D = ±0.5pF  
F = ±1%  
G = ±2%  
J = ±5%  
K = ±10%

### R

#### Military Failure Rate

M = 1% per 1000 hours  
P = 0.1% per 1000 hours  
R = 0.01% per 1000 hours  
S = 0.001% per 1000 hours

### (V)

#### Standoff Option

To order standoff option, place "V" at the end of the part number.  
Example:  
CCR05CG332FSV

**Not RoHS Compliant**

## PACKAGING REQUIREMENTS

Packaging: CCR0X: 100 pcs/bag; CC0X: 1000 pcs/bag

## SIZE SPECIFICATIONS

Dimensions: Millimeters (Inches)

| Per MIL Spec               | Case Size                |                          |                         |                          |                        |
|----------------------------|--------------------------|--------------------------|-------------------------|--------------------------|------------------------|
| MIL-PRF-20                 | Length (L)               | Width (W)                | Thickness (T)           | Lead Spacing (L.S.)      | Lead Diameter (L.D.)   |
| CCR05/CC05<br>Figures 1, 4 | 4.83±.25<br>(.190±.010)  | 4.83±.25<br>(.190±.010)  | 2.29±.25<br>(.090±.010) | 5.08±.38<br>(.200±.015)  | .64±.05<br>(.025±.002) |
| CCR06/CC06<br>Figures 2, 3 | 7.37±.25<br>(.290±.010)  | 7.37±.25<br>(.290±.010)  | 2.29±.25<br>(.090±.010) | 5.08±.38<br>(.200±.015)  | .64±.05<br>(.025±.002) |
| CCR07/CC07<br>Figure 2     | 12.19±.51<br>(.480±.020) | 12.19±.51<br>(.480±.020) | 3.56±.25<br>(.140±.010) | 10.16±.51<br>(.400±.020) | .64±.05<br>(.025±.002) |
| CCR08/CC08<br>Figure 2     | 12.19±.51<br>(.480±.020) | 12.19±.51<br>(.480±.020) | 6.1±.25<br>(.240±.010)  | 10.16±.51<br>(.400±.020) | .64±.05<br>(.025±.002) |
| CCR09/CC09<br>Figure 2     | 4.83±.25<br>(.190±.010)  | 4.83±.25<br>(.190±.010)  | 2.29±.25<br>(.090±.010) | 2.54±.38<br>(.100±.015)  | .64±.05<br>(.025±.002) |

## MILITARY PART NUMBER IDENTIFICATION

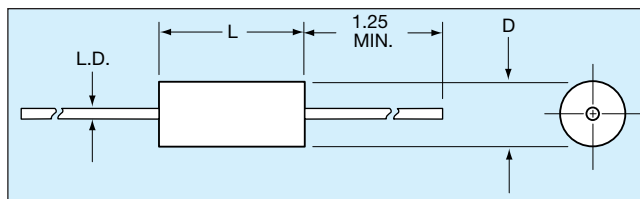
| Military Type Designation     | Capacitance (pF) | Capacitance Tolerance | WVDC |
|-------------------------------|------------------|-----------------------|------|
| <b>CC05-CCR05, CC09-CCR09</b> |                  |                       |      |
| CCR05CX1R0                    | 1.0              | B, C                  | 200  |
| CCR05CX1R1                    | 1.1              | B, C                  | 200  |
| CCR05CX1R2                    | 1.2              | B, C                  | 200  |
| CCR05CX1R3                    | 1.3              | B, C                  | 200  |
| CCR05CX1R5                    | 1.5              | B, C                  | 200  |
| CCR05CX1R6                    | 1.6              | B, C                  | 200  |
| CCR05CX1R8                    | 1.8              | B, C                  | 200  |
| CCR05CX2R0                    | 2.0              | B, C                  | 200  |
| CCR05CK2R2                    | 2.2              | B, C                  | 200  |
| CCR05CK2R4                    | 2.4              | B, C                  | 200  |
| CCR05CK2R7                    | 2.7              | B, C, D               | 200  |
| CCR05CK3R0                    | 3.0              | B, C, D               | 200  |
| CCR05CK3R3                    | 3.3              | B, C, D               | 200  |
| CCR05CK3R6                    | 3.6              | B, C, D               | 200  |
| CCR05CK3R9                    | 3.9              | B, C, D               | 200  |
| CCR05CJ4R3                    | 4.3              | B, C, D               | 200  |
| CCR05CJ4R7                    | 4.7              | B, C, D               | 200  |
| CCR05CJ5R1                    | 5.1              | B, C, D               | 200  |
| CCR05CJ5R6                    | 5.6              | B, C, D               | 200  |
| CCR05CJ6R2                    | 6.2              | B, C, D               | 200  |
| CCR05CJ6R8                    | 6.8              | B, C, D               | 200  |
| CCR05CJ7R5                    | 7.5              | B, C, D               | 200  |
| CCR05CH8R2                    | 8.2              | B, C, D               | 200  |
| CCR05CH9R1                    | 9.1              | B, C, D               | 200  |
| CCR05CH100                    | 10               | F, G, J               | 200  |
| CCR05CH110                    | 11               | F, G, J               | 200  |
| CCR05CH120                    | 12               | F, G, J               | 200  |
| CCR05CH130                    | 13               | F, G, J               | 200  |
| CCR05CH150                    | 15               | F, G, J               | 200  |
| CCR05CH160                    | 16               | F, G, J               | 200  |
| CCR05CH180                    | 18               | F, G, J               | 200  |
| CCR05CG200                    | 20               | F, G, J               | 200  |
| CCR05CG220                    | 22               | F, G, J               | 200  |
| CCR05CG240                    | 24               | F, G, J               | 200  |
| CCR05CG270                    | 27               | F, G, J               | 200  |
| CCR05CG300                    | 30               | F, G, J               | 200  |
| CCR05CG330                    | 33               | F, G, J               | 200  |
| CCR05CG360                    | 36               | F, G, J               | 200  |
| CCR05CG390                    | 39               | F, G, J               | 200  |
| CCR05CG430                    | 43               | F, G, J               | 200  |
| CCR05CG470                    | 47               | F, G, J               | 200  |
| CCR05CG510                    | 51               | F, G, J               | 200  |
| CCR05CG560                    | 56               | F, G, J               | 200  |
| CCR05CG620                    | 62               | F, G, J               | 200  |
| CCR05CG680                    | 68               | F, G, J               | 200  |
| CCR05CG750                    | 75               | F, G, J               | 200  |
| CCR05CG820                    | 82               | F, G, J               | 200  |
| CCR05CG910                    | 91               | F, G, J               | 200  |
| CCR05CG101                    | 100              | F, G, J               | 200  |
| CCR05CG111                    | 110              | F, G, J               | 200  |
| CCR05CG121                    | 120              | F, G, J               | 200  |
| CCR05CG131                    | 130              | F, G, J               | 200  |
| CCR05CG151                    | 150              | F, G, J               | 200  |
| CCR05CG161                    | 160              | F, G, J               | 200  |
| CCR05CG181                    | 180              | F, G, J               | 200  |
| CCR05CG201                    | 200              | F, G, J               | 200  |
| CCR05CG221                    | 220              | F, G, J               | 200  |
| CCR05CG241                    | 240              | F, G, J               | 200  |
| CCR05CG271                    | 270              | F, G, J               | 200  |
| CCR05CG301                    | 300              | F, G, J               | 200  |
| CCR05CG331                    | 330              | F, G, J               | 200  |
| CCR05CG361                    | 360              | F, G, J               | 100  |
| CCR05CG391                    | 390              | F, G, J               | 100  |
| CCR05CG431                    | 430              | F, G, J               | 100  |
| CCR05CG471                    | 470              | F, G, J               | 100  |
| CCR05CG511                    | 510              | F, G, J               | 100  |
| CCR05CG561                    | 560              | F, G, J               | 100  |
| CCR05CG621                    | 620              | F, G, J               | 100  |
| CCR05CG681                    | 680              | F, G, J               | 100  |
| CCR05CG751                    | 750              | F, G, J               | 100  |
| CCR05CG821                    | 820              | F, G, J               | 100  |
| CCR05CG911                    | 910              | F, G, J               | 100  |
| CCR05CG102                    | 1,000            | F, G, J               | 100  |
| CCR05CG112                    | 1,100            | F, G, J               | 100  |
| CCR05CG122                    | 1,200            | F, G, J               | 100  |
| CCR05CG132                    | 1,300            | F, G, J               | 100  |
| CCR05CG152                    | 1,500            | F, G, J               | 100  |
| CCR05CG162                    | 1,600            | F, G, J               | 100  |
| CCR05CG182                    | 1,800            | F, G, J               | 100  |
| CCR05CG202                    | 2,000            | F, G, J               | 50   |

Add appropriate failure rate level (M, P, R or S)  
Add appropriate cap. tolerance letter

| Military Type Designation            | Capacitance (pF) | Capacitance Tolerance | WVDC |
|--------------------------------------|------------------|-----------------------|------|
| <b>CC05-CCR05, CC09-CCR09 (cont)</b> |                  |                       |      |
| CCR05CG222                           | 2,200            | F, G, J               | 50   |
| CCR05CG242                           | 2,400            | F, G, J               | 50   |
| CCR05CG272                           | 2,700            | F, G, J               | 50   |
| CCR05CG302                           | 3,000            | F, G, J               | 50   |
| CCR05CG332                           | 3,300            | F, G, J               | 50   |
| <b>CC06, CCR06</b>                   |                  |                       |      |
| CCR06CG361                           | 360              | F, G, J               | 200  |
| CCR06CG391                           | 390              | F, G, J               | 200  |
| CCR06CG431                           | 430              | F, G, J               | 200  |
| CCR06CG471                           | 470              | F, G, J               | 200  |
| CCR06CG511                           | 510              | F, G, J               | 200  |
| CCR06CG561                           | 560              | F, G, J               | 200  |
| CCR06CG621                           | 620              | F, G, J               | 200  |
| CCR06CG681                           | 680              | F, G, J               | 200  |
| CCR06CG751                           | 750              | F, G, J               | 200  |
| CCR06CG821                           | 820              | F, G, J               | 200  |
| CCR06CG911                           | 910              | F, G, J               | 200  |
| CCR06CG102                           | 1,000            | F, G, J               | 200  |
| CCR06CG112                           | 1,100            | F, G, J               | 200  |
| CCR06CG122                           | 1,200            | F, G, J               | 200  |
| CCR06CG132                           | 1,300            | F, G, J               | 200  |
| CCR06CG152                           | 1,500            | F, G, J               | 200  |
| CCR06CG162                           | 1,600            | F, G, J               | 200  |
| CCR06CG182                           | 1,800            | F, G, J               | 200  |
| CCR06CG202                           | 2,000            | F, G, J               | 100  |
| CCR06CG222                           | 2,200            | F, G, J               | 100  |
| CCR06CG242                           | 2,400            | F, G, J               | 100  |
| CCR06CG272                           | 2,700            | F, G, J               | 100  |
| CCR06CG302                           | 3,000            | F, G, J               | 100  |
| CCR06CG332                           | 3,300            | F, G, J               | 100  |
| CCR06CG362                           | 3,600            | F, G, J               | 100  |
| CCR06CG392                           | 3,900            | F, G, J               | 100  |
| CCR06CG432                           | 4,300            | F, G, J               | 100  |
| CCR06CG472                           | 4,700            | F, G, J               | 100  |
| CCR06CG512                           | 5,100            | F, G, J, K            | 50   |
| CCR06CG562                           | 5,600            | F, G, J, K            | 50   |
| CCR06CG622                           | 6,200            | F, G, J, K            | 50   |
| CCR06CG682                           | 6,800            | F, G, J, K            | 50   |
| CCR06CG752                           | 7,500            | F, G, J, K            | 50   |
| CCR06CG822                           | 8,200            | F, G, J, K            | 50   |
| CCR06CG912                           | 9,100            | F, G, J, K            | 50   |
| CCR06CG103                           | 10,000           | F, G, J, K            | 50   |
| CCR06CG123                           | 12,000           | F, G, J, K            | 50   |
| CCR06CG153                           | 15,000           | F, G, J, K            | 50   |
| CCR06CG183                           | 18,000           | F, G, J, K            | 50   |
| <b>CC07, CCR07</b>                   |                  |                       |      |
| CCR07CG222                           | 2,200            | F, G, J, K            | 200  |
| CCR07CG272                           | 2,700            | F, G, J, K            | 200  |
| CCR07CG332                           | 3,300            | F, G, J, K            | 200  |
| CCR07CG392                           | 3,900            | F, G, J, K            | 200  |
| CCR07CG472                           | 4,700            | F, G, J, K            | 200  |
| CCR07CG562                           | 5,600            | F, G, J, K            | 100  |
| CCR07CG682                           | 6,800            | F, G, J, K            | 100  |
| CCR07CG822                           | 8,200            | F, G, J, K            | 100  |
| CCR07CG103                           | 10,000           | F, G, J, K            | 100  |
| CCR07CG123                           | 12,000           | F, G, J, K            | 100  |
| CCR07CG153                           | 15,000           | F, G, J, K            | 50   |
| CCR07CG183                           | 18,000           | F, G, J, K            | 50   |
| CCR07CG223                           | 22,000           | F, G, J, K            | 50   |
| CCR07CG273                           | 27,000           | F, G, J, K            | 50   |
| CCR07CG333                           | 33,000           | F, G, J, K            | 50   |
| CCR07CG393                           | 39,000           | F, G, J, K            | 50   |
| CCR07CG473                           | 47,000           | F, G, J, K            | 50   |
| CCR07CG563                           | 56,000           | F, G, J, K            | 50   |
| CCR07CG683                           | 68,000           | F, G, J, K            | 50   |
| CCR07CG823                           | 82,000           | F, G, J, K            | 50   |
| CCR07CG104                           | 100,000          | F, G, J, K            | 50   |
| <b>CC08, CCR08</b>                   |                  |                       |      |
| CCR08CG392                           | 3,900            | G, J, K               | 200  |
| CCR08CG472                           | 4,700            | G, J, K               | 200  |
| CCR08CG153                           | 15,000           | G, J, K               | 100  |
| CCR08CG183                           | 18,000           | G, J, K               | 100  |
| CCR08CG563                           | 56,000           | G, J, K               | 50   |
| CCR08CG683                           | 68,000           | G, J, K               | 50   |

Add appropriate failure rate level (M, P, R or S)  
Add appropriate cap. tolerance letter

**Note:** For marking information, see page 74.



## HOW TO ORDER

### Military Type Designation:

Established Reliability = CCR75, CCR76, CCR77, CCR78, CCR79

Non-Established Reliability = CC75, CC76, CC77, CC78, CC79

### CCR76

#### Style

CC = Identifies temperature compensating, ceramic dielectric, fixed capacitors.  
R = Identifies Established Reliability parts.  
76 = Numbers identify shape and dimension.

### CG

#### Temperature Characteristic

| Permissible capacitance change from capacitance at +25°C in ppm/°C |                  |          |
|--------------------------------------------------------------------|------------------|----------|
| Characteristic                                                     |                  | Temp.    |
| CX                                                                 | 1/               | +125°C   |
|                                                                    | 1/               | -55°C 2/ |
| CK                                                                 | ±250 ppm/°C      | +125°C   |
|                                                                    | +246.25, -326.25 | -55°C 2/ |
| CJ                                                                 | ±120 ppm/°C      | +125°C   |
|                                                                    | +116.25, -166.25 | -55°C 2/ |
| CH                                                                 | ±60 ppm/°C       | +125°C   |
|                                                                    | +55.00, -91.25   | -55°C 2/ |
| CG                                                                 | ±30 ppm/°C       | +125°C   |
|                                                                    | +27.50, -53.75   | -55°C 2/ |

1/ Not practically measurable.

2/ The ppm/°C values for -55°C were calculated by dividing ppm by negative 80°C.

### 102

#### Capacitance

First two digits are the significant figures of capacitance. Third digit indicates the additional number of zeros. For example, order 1,000 pF as 102. (For values below 10pF use "R" in place of decimal point, e.g., 1R8 = 1.8pF.)

### K

#### Capacitance Tolerance

C = ±0.25pF  
D = ±0.5pF  
F = ±1%  
G = ±2%  
J = ±5%  
K = ±10%

### R

#### Military Failure Rate

M = 1% per 1000 hours  
P = 0.1% per 1000 hours  
R = 0.01% per 1000 hours  
S = 0.001% per 1000 hours

Not RoHS Compliant

## PACKAGING REQUIREMENTS

### Packaging: Bulk

CCR75/CC75, CCR76/CC76, CCR77/CC77, 100 pcs/bag  
CCR78/CC78, CCR79/CC79 50 pcs/bag

### Tape & Reel

CCR75/CC75, CCR76/CC76 5000 pcs/reel  
CCR77/CC77 3000 pcs/reel  
CCR78/CC78 950 pcs/reel  
CCR79/CC79 650 pcs/reel

## SIZE SPECIFICATIONS

Dimensions: Millimeters (Inches)

| Per MIL Spec  | Case Size                |                         |                        |
|---------------|--------------------------|-------------------------|------------------------|
| MIL-PRF-20    | Length (L)               | Diameter (D)            | Lead Diameter (L.D.)   |
| CCR75<br>CC75 | 4.07±.25<br>(.160±.010)  | 2.29±.25<br>(.090±.010) | .48±.05<br>(.019±.002) |
| CCR76<br>CC76 | 6.35±.25<br>(.250±.010)  | 2.29±.25<br>(.090±.010) | .48±.05<br>(.019±.002) |
| CCR77<br>CC77 | 9.91±.25<br>(.390±.010)  | 3.56±.25<br>(.140±.010) | .63±.05<br>(.025±.002) |
| CCR78<br>CC78 | 12.7±.51<br>(.500±.020)  | 6.35±.38<br>(.250±.015) | .63±.05<br>(.025±.002) |
| CCR79<br>CC79 | 17.53±.51<br>(.690±.020) | 8.89±.51<br>(.350±.020) | .63±.05<br>(.025±.002) |

## MILITARY PART NUMBER IDENTIFICATION CC75 THRU CC79 AND CCR75 THRU CCR79

| Military Type Designation | Capacitance (pF) | Capacitance Tolerance | WVDC |
|---------------------------|------------------|-----------------------|------|
| CC75-CCR75                |                  |                       |      |
| CCR75CX1R0                | 1.0              | C                     | 200  |
| CCR75CX1R1                | 1.1              | C                     | 200  |
| CCR75CX1R2                | 1.2              | C                     | 200  |
| CCR75CX1R3                | 1.3              | C                     | 200  |
| CCR75CX1R5                | 1.5              | C                     | 200  |
| CCR75CX1R6                | 1.6              | C                     | 200  |
| CCR75CX1R8                | 1.8              | C                     | 200  |
| CCR75CX2R0                | 2.0              | C                     | 200  |
| CCR75CK2R2                | 2.2              | C                     | 200  |
| CCR75CK2R4                | 2.4              | C                     | 200  |
| CCR75CK2R7                | 2.7              | C, D                  | 200  |
| CCR75CK3R0                | 3.0              | C, D                  | 200  |
| CCR75CK3R3                | 3.3              | C, D                  | 200  |
| CCR75CK3R6                | 3.6              | C, D                  | 200  |
| CCR75CK3R9                | 3.9              | C, D                  | 200  |
| CCR75CJ4R3                | 4.3              | C, D                  | 200  |
| CCR75CJ4R7                | 4.7              | C, D                  | 200  |
| CCR75CJ5R1                | 5.1              | C, D                  | 200  |
| CCR75CJ5R6                | 5.6              | C, D                  | 200  |
| CCR75CJ6R2                | 6.2              | C, D                  | 200  |
| CCR75CJ6R8                | 6.8              | C, D                  | 200  |
| CCR75CJ7R5                | 7.5              | C, D                  | 200  |
| CCR75CH8R2                | 8.2              | C, D                  | 200  |
| CCR75CH9R1                | 9.1              | C, D                  | 200  |
| CCR75CH100                | 10               | G, J                  | 200  |
| CCR75CH110                | 11               | G, J                  | 200  |
| CCR75CH120                | 12               | G, J                  | 200  |
| CCR75CH130                | 13               | G, J                  | 200  |
| CCR75CH150                | 15               | G, J                  | 200  |
| CCR75CH160                | 16               | G, J                  | 200  |
| CCR75CH180                | 18               | G, J                  | 200  |
| CCR75CG200                | 20               | F, G, J               | 200  |
| CCR75CG220                | 22               | F, G, J               | 200  |
| CCR75CG240                | 24               | F, G, J               | 200  |
| CCR75CG270                | 27               | F, G, J               | 200  |
| CCR75CG300                | 30               | F, G, J               | 200  |

— Add appropriate failure rate level (M, P, R or S)  
— Add appropriate cap. tolerance letter

| Military Type Designation | Capacitance (pF) | Capacitance Tolerance | WVDC |
|---------------------------|------------------|-----------------------|------|
| CC75-CCR75                |                  |                       |      |
| CCR75CG330                | 33               | F, G, J               | 200  |
| CCR75CG360                | 36               | F, G, J               | 200  |
| CCR75CG390                | 39               | F, G, J               | 200  |
| CCR75CG430                | 43               | F, G, J               | 200  |
| CCR75CG470                | 47               | F, G, J               | 200  |
| CCR75CG510                | 51               | F, G, J               | 200  |
| CCR75CG560                | 56               | F, G, J               | 200  |
| CCR75CG620                | 62               | F, G, J               | 200  |
| CCR75CG680                | 68               | F, G, J               | 200  |
| CCR75CG750                | 75               | F, G, J               | 200  |
| CCR75CG820                | 82               | F, G, J               | 100  |
| CCR75CG910                | 91               | F, G, J               | 100  |
| CCR75CG101                | 100              | F, G, J               | 100  |
| CCR75CG111                | 110              | F, G, J               | 100  |
| CCR75CG121                | 120              | F, G, J               | 100  |
| CCR75CG131                | 130              | F, G, J               | 100  |
| CCR75CG151                | 150              | F, G, J               | 100  |
| CCR75CG161                | 160              | F, G, J               | 100  |
| CCR75CG181                | 180              | F, G, J               | 100  |
| CCR75CG201                | 200              | F, G, J               | 100  |
| CCR75CG221                | 220              | F, G, J               | 100  |
| CCR75CG241                | 240              | F, G, J               | 100  |
| CCR75CG271                | 270              | F, G, J               | 50   |
| CCR75CG301                | 300              | F, G, J               | 50   |
| CCR75CG331                | 330              | F, G, J               | 50   |
| CCR75CG361                | 360              | F, G, J               | 50   |
| CCR75CG391                | 390              | F, G, J               | 50   |
| CCR75CG431                | 430              | F, G, J               | 50   |
| CCR75CG471                | 470              | F, G, J               | 50   |
| CCR75CG511                | 510              | F, G, J               | 50   |
| CCR75CG561                | 560              | F, G, J               | 50   |
| CCR75CG621                | 620              | F, G, J               | 50   |
| CCR75CG681                | 680              | F, G, J               | 50   |

— Add appropriate failure rate level (M, P, R or S)  
— Add appropriate cap. tolerance letter

**Note:** For marking information, see page 74.

## MILITARY PART NUMBER IDENTIFICATION CC75 THRU CC79 AND CCR75 THRU CCR79

| Military Type Designation | Capacitance (pF) | Capacitance Tolerance | WVDC |
|---------------------------|------------------|-----------------------|------|
| <b>CC76, CCR76</b>        |                  |                       |      |
| CCR76CG820_               | 82               | F, G, J               | 200  |
| CCR76CG910_               | 91               | F, G, J               | 200  |
| CCR76CG101_               | 100              | F, G, J               | 200  |
| CCR76CG111_               | 110              | F, G, J               | 200  |
| CCR76CG121_               | 120              | F, G, J               | 200  |
| CCR76CG131_               | 130              | F, G, J               | 200  |
| CCR76CG271_               | 270              | F, G, J               | 100  |
| CCR76CG301_               | 300              | F, G, J               | 100  |
| CCR76CG331_               | 330              | F, G, J               | 100  |
| CCR76CG361_               | 360              | F, G, J               | 100  |
| CCR76CG391_               | 390              | F, G, J               | 100  |
| CCR76CG431_               | 430              | F, G, J               | 100  |
| CCR76CG471_               | 470              | F, G, J               | 100  |
| CCR76CG511_               | 510              | F, G, J               | 100  |
| CCR76CG561_               | 560              | F, G, J               | 100  |
| CCR76CG621_               | 620              | F, G, J               | 100  |
| CCR76CG681_               | 680              | F, G, J               | 100  |
| CCR76CG751_               | 750              | F, G, J               | 50   |
| CCR76CG821_               | 820              | F, G, J               | 50   |
| CCR76CG911_               | 910              | F, G, J               | 50   |
| CCR76CG102_               | 1,000            | F, G, J               | 50   |
| <b>CC77, CCR77</b>        |                  |                       |      |
| CCR77CG151_               | 150              | F, G, J               | 200  |
| CCR77CG161_               | 160              | F, G, J               | 200  |
| CCR77CG181_               | 180              | F, G, J               | 200  |
| CCR77CG201_               | 200              | F, G, J               | 200  |
| CCR77CG221_               | 220              | F, G, J               | 200  |
| CCR77CG241_               | 240              | F, G, J               | 200  |
| CCR77CG271_               | 270              | F, G, J               | 200  |
| CCR77CG301_               | 300              | F, G, J               | 200  |
| CCR77CG331_               | 330              | F, G, J               | 200  |
| CCR77CG361_               | 360              | F, G, J               | 200  |
| CCR77CG391_               | 390              | F, G, J               | 200  |
| CCR77CG431_               | 430              | F, G, J               | 200  |
| CCR77CG471_               | 470              | F, G, J               | 200  |
| CCR77CG511_               | 510              | F, G, J               | 200  |
| CCR77CG561_               | 560              | F, G, J               | 200  |
| CCR77CG621_               | 620              | F, G, J               | 200  |
| CCR77CG681_               | 680              | F, G, J               | 200  |
| CCR77CG751_               | 750              | F, G, J               | 100  |
| CCR77CG821_               | 820              | F, G, J               | 100  |
| CCR77CG911_               | 910              | F, G, J               | 100  |
| CCR77CG102_               | 1,000            | F, G, J               | 100  |
| CCR77CG112_               | 1,100            | F, G, J               | 100  |
| CCR77CG122_               | 1,200            | F, G, J               | 100  |
| CCR77CG132_               | 1,300            | F, G, J               | 100  |
| CCR77CG152_               | 1,500            | F, G, J               | 100  |
| CCR77CG162_               | 1,600            | F, G, J               | 100  |
| CCR77CG182_               | 1,800            | F, G, J               | 100  |
| CCR77CG202_               | 2,000            | F, G, J               | 100  |
| CCR77CG222_               | 2,200            | F, G, J               | 100  |
| CCR77CG242_               | 2,400            | F, G, J               | 50   |
| CCR77CG272_               | 2,700            | F, G, J               | 50   |

— Add appropriate failure rate level (M, P, R or S)  
 — Add appropriate cap. tolerance letter

| Military Type Designation | Capacitance (pF) | Capacitance Tolerance | WVDC |
|---------------------------|------------------|-----------------------|------|
| <b>CC77, CCR77 (cont)</b> |                  |                       |      |
| CCR77CG302_               | 3,000            | F, G, J               | 50   |
| CCR77CG332_               | 3,300            | F, G, J               | 50   |
| CCR77CG362_               | 3,600            | F, G, J               | 50   |
| CCR77CG392_               | 3,900            | F, G, J               | 50   |
| CCR77CG432_               | 4,300            | F, G, J               | 50   |
| CCR77CG472_               | 4,700            | F, G, J               | 50   |
| CCR77CG512_               | 5,100            | F, G, J, K            | 50   |
| CCR77CG562_               | 5,600            | F, G, J, K            | 50   |
| <b>CC78, CCR78</b>        |                  |                       |      |
| CCR78CG821_               | 820              | F, G, J, K            | 200  |
| CCR78CG102_               | 1,000            | F, G, J, K            | 200  |
| CCR78CG122_               | 1,200            | F, G, J, K            | 200  |
| CCR78CG152_               | 1,500            | F, G, J, K            | 200  |
| CCR78CG182_               | 1,800            | F, G, J, K            | 200  |
| CCR78CG222_               | 2,200            | F, G, J, K            | 200  |
| CCR78CG272_               | 2,700            | F, G, J, K            | 200  |
| CCR78CG332_               | 3,300            | F, G, J, K            | 200  |
| CCR78CG392_               | 3,900            | F, G, J, K            | 100  |
| CCR78CG472_               | 4,700            | F, G, J, K            | 100  |
| CCR78CG562_               | 5,600            | F, G, J, K            | 100  |
| CCR78CG682_               | 6,800            | F, G, J, K            | 100  |
| CCR78CG822_               | 8,200            | F, G, J, K            | 100  |
| CCR78CG103_               | 10,000           | F, G, J, K            | 100  |
| CCR78CG123_               | 12,000           | F, G, J, K            | 100  |
| CCR78CG153_               | 15,000           | F, G, J, K            | 50   |
| CCR78CG183_               | 18,000           | F, G, J, K            | 50   |
| CCR78CG223_               | 22,000           | F, G, J, K            | 50   |
| CCR78CG273_               | 27,000           | F, G, J, K            | 50   |
| <b>CC79, CCR79</b>        |                  |                       |      |
| CCR79CG392_               | 3,900            | F, G, J, K            | 200  |
| CCR79CG472_               | 4,700            | F, G, J, K            | 200  |
| CCR79CG562_               | 5,600            | F, G, J, K            | 200  |
| CCR79CG682_               | 6,800            | F, G, J, K            | 200  |
| CCR79CG822_               | 8,200            | F, G, J, K            | 200  |
| CCR79CG103_               | 10,000           | F, G, J, K            | 200  |
| CCR79CG153_               | 15,000           | F, G, J, K            | 100  |
| CCR79CG183_               | 18,000           | F, G, J, K            | 100  |
| CCR79CG223_               | 22,000           | F, G, J, K            | 100  |
| CCR79CG273_               | 27,000           | F, G, J, K            | 100  |
| CCR79CG333_               | 33,000           | F, G, J, K            | 100  |
| CCR79CG393_               | 39,000           | F, G, J, K            | 100  |
| CCR79CG473_               | 47,000           | F, G, J, K            | 50   |
| CCR79CG563_               | 56,000           | F, G, J, K            | 50   |
| CCR79CG683_               | 68,000           | F, G, J, K            | 50   |
| CCR79CG823_               | 82,000           | F, G, J, K            | 50   |

— Add appropriate failure rate level (M, P, R or S)  
 — Add appropriate cap. tolerance letter

**Note:** Complete type designation will include the appropriate capacitance tolerance in the 11th digit. For CC styles, delete 3rd and 12th digits.

**Note:** For marking information, see page 74.

## MARKING

### Radials

#### CC05 & CC09

|                    |                    |
|--------------------|--------------------|
| CC05<br>CH<br>100G | 0810<br>A0<br>4222 |
| FRONT              | BACK               |

Date Code  
A=Lot Letter  
0=1st Digit of AVX FSCM #  
4222=Last four digits of AVX FSCM #

#### CCR05 & CCR09

|                      |                     |
|----------------------|---------------------|
| CCR0<br>5CH1<br>00GM | 0810<br>AJ0<br>4222 |
| FRONT                | BACK                |

Date Code  
A=Lot Letter  
J="J" or "JAN" Brand  
0=1st Digit of AVX FSCM #  
4222=Last four digits of AVX FSCM #

#### CC06

|                    |                        |
|--------------------|------------------------|
| CC06<br>CG<br>102F | 0810A<br>200V<br>04222 |
| FRONT              | BACK                   |

Date Code & Lot Letter  
200V=Rated Voltage  
04222=AVX FSCM #

#### CCR06

|                      |                         |
|----------------------|-------------------------|
| CCR06<br>CG102<br>FM | 0810A<br>J200V<br>04222 |
| FRONT                | BACK                    |

Date Code & Lot Letter  
J="J" or "JAN" Brand  
200V=Rated Voltage  
04222=AVX FSCM #

#### CC07

|                         |
|-------------------------|
| CG<br>103<br>G8<br>AAVX |
|-------------------------|

Characteristic  
Capacitance Value  
Cap. Tolerance & Year Code (8 for 2008)  
Lot Code & Trademark

#### CCR07

|                           |
|---------------------------|
| JCG<br>103<br>GM8<br>AAVX |
|---------------------------|

"J" Brand (J) and Characteristic (CG)  
Capacitance Value  
Cap. Tolerance (G) FR Level (M), & Year Code (8 for 2008)  
Lot Code (A); and Trademark (AVX)

#### CC08

|                                              |
|----------------------------------------------|
| CC08CG<br>392K<br>AVX<br>96095<br>200V 0810A |
|----------------------------------------------|

Trademark or Manufacturer's Name  
Source Code (FSCM)  
Voltage, Date Code and Lot Symbol

#### CCR08

|                                                    |
|----------------------------------------------------|
| CCR08CG<br>392KM<br>JAN AVX<br>96095<br>200V 0810A |
|----------------------------------------------------|

"JAN" Brand & Trademark or Manufacturer's Name  
Source Code (FSCM)  
Voltage, Date Code and Lot Symbol

### Axials

#### CC75, CC76

|                           |
|---------------------------|
| CG<br>101<br>G08<br>10AAA |
|---------------------------|

Characteristic  
Capacitance Value  
Cap. Tolerance & 2 digit Year Code  
2 digit Week, 2 digit Lot Code, A for AVX

#### CCR75, CCR76

|                             |
|-----------------------------|
| JCG<br>101<br>GM08<br>10AAA |
|-----------------------------|

"J" Brand (J) and Characteristic (CG)  
Capacitance Value  
Cap. Tolerance (G) FR Level (M), & 2 digit Year Code  
2 digit Week, A for AVX

#### CC77

|                                   |
|-----------------------------------|
| CC77C<br>G151F<br>04222<br>0810AA |
|-----------------------------------|

Type Designation  
FSCM  
4 digit Date Code, 2 digit Lot Code

#### CCR77

|                                      |
|--------------------------------------|
| CCR77C<br>G151FM<br>JO4222<br>0810AA |
|--------------------------------------|

Type Designation  
"J" Brand and FSCM  
4 digit Date Code, 2 digit Lot Code

#### CC78, CC79

|                                                  |
|--------------------------------------------------|
| CC78CG<br>821K<br>AVX<br>04222<br>200V<br>0810AA |
|--------------------------------------------------|

Type Designation  
Trademark or Manufacturer's Name  
Source Code (FSCM)  
Voltage  
4 digit Date Code

#### CCR78, CCR79

|                                                          |
|----------------------------------------------------------|
| CCR78<br>CG<br>821KM<br>JAN A<br>04222<br>200V<br>0810AA |
|----------------------------------------------------------|

Type Designation  
TC  
Capacitance Tolerance, Failure Rate  
"JAN" Brand, A for AVX  
FSCM  
Voltage  
4 digit Date Code, 2 digit Lot Code

# Mouser Electronics

Authorized Distributor

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## AVX:

[CC05CG101F](#) [CC05CG101J](#) [CC05CG101JTR1B](#) [CC05CG102J](#) [CC05CG122J](#) [CC05CG131J](#) [CC05CG151J](#)  
[CC05CG152J](#) [CC05CG181F](#) [CC05CG220F](#) [CC05CG221J](#) [CC05CG222G](#) [CC05CG240J](#) [CC05CG270J](#)  
[CC05CG271J](#) [CC05CG271JTR1](#) [CC05CG272J](#) [CC05CG330J](#) [CC05CG470JTR1](#) [CC05CG471J](#) [CC05CG471JAP1](#)  
[CC05CG510F](#) [CC05CG560F](#) [CC05CG561G](#) [CC05CG620J](#) [CC05CG681G](#) [CC05CG681J](#) [CC05CG820J](#)  
[CC05CG821J](#) [CC05CJ4R7DTR2](#) [CC05CK3R9B](#) [CC05CX1R5CTR1](#) [CC06CG103G](#) [CC06CG103J](#) [CC06CG122G](#)  
[CC06CG152GTR1](#) [CC06CG152JTR1](#) [CC06CG182J](#) [CC06CG392G](#) [CC06CG392J](#) [CC06CG472G](#) [CC06CG512F](#)  
[CC06CG681G](#) [CC06CG822G](#) [CC07CG104G](#) [CC08CG683K](#) [CC09CG101J](#) [CC09CG101JTR1](#) [CC09CG102JTR1](#)  
[CC09CG151GTR1](#) [CC09CG151JTR1](#) [CC09CG152J](#) [CC09CG181G](#) [CC09CG181JTR1](#) [CC09CG270G](#)  
[CC09CG270GTR1](#) [CC09CG330JTR1](#) [CC09CG331G](#) [CC09CG470F](#) [CC09CG470JTR1](#) [CC09CG471JTR1](#)  
[CC09CH150JTR1](#) [CC05CG102G](#) [CC05CG121J](#) [CC05CG220J](#) [CC05CG270F](#) [CC05CG331F](#) [CC05CG331J](#)  
[CC05CG391F](#) [CC05CG470F](#) [CC05CG470JTR2](#) [CC05CG560J](#) [CC05CG680F](#) [CC05CG680J](#) [CC05CG820F](#)  
[CC05CJ4R7D](#) [CC05CJ6R2C](#) [CC05CJ6R8DTR2](#) [CC05CK2R7DTR2](#) [CC05CK3R9C](#) [CC05CX1R8DTR2](#)  
[CC06CG153KAP2](#) [CC05CG391JTR1](#) [CC05CG680FTR2](#) [CC06CG102J](#) [CC06CG183K](#) [CC06CG472J](#) [CC09CJ5R1D](#)  
[CC05CG301J](#) [CC05CG360J](#) [CC05CG470J](#) [CC05CG820JTR1](#) [CC05CH150J](#) [CC05CH8R2C](#) [CC06CG152G](#)  
[CC06CG152J](#) [CC06CG512G](#) [CC07CG104K](#) [CC09CG102J](#) [CC09CG181J](#)