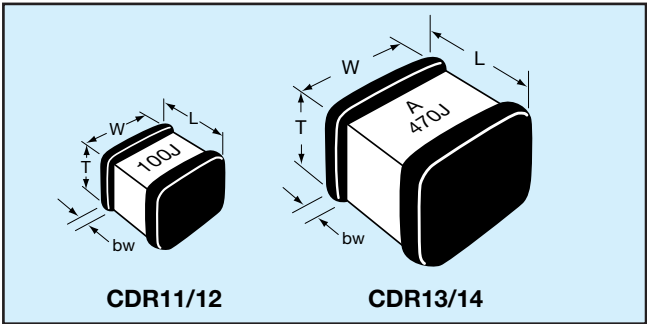


# Microwave MLC's



## CDR Series — MIL-PRF-55681 (RF/Microwave Chips)

### MILITARY DESIGNATION PER MIL-PRF-55681



### CROSS REFERENCE: AVX/MIL-PRF-55681

| Per MIL-C-55681 | AVX Style | Length (L)                             | Width (W)                | Thickness (T)  |                | Termination Band (bw) |                |
|-----------------|-----------|----------------------------------------|--------------------------|----------------|----------------|-----------------------|----------------|
|                 |           |                                        |                          | Max            | Min            | Max                   | Min            |
| CDR11           | AQ11      | .055±.015<br>(1.40±.381)               | .055±.015<br>(1.40±.381) | .057<br>(1.45) | .020<br>(.508) | .020<br>(.508)        | .005<br>(.127) |
| CDR12           | AQ12      | .055±.025<br>(1.40±.635)               | .055±.015<br>(1.40±.381) | .057<br>(1.45) | .020<br>(.508) | .020<br>(.508)        | .005<br>(.127) |
| CDR13           | AQ13      | .110±.020<br>(2.79±.508)               | .110±.020<br>(2.79±.508) | .102<br>(2.59) | .030<br>(.762) | .025<br>(.635)        | .005<br>(.127) |
| CDR14           | AQ14      | .110 +.035 -.020<br>(2.79 +.889 -.508) | .110±.020<br>(2.79±.508) | .102<br>(2.59) | .030<br>(.762) | .025<br>(.635)        | .005<br>(.127) |

### HOW TO ORDER

**CDR12**

**MIL Style**  
CDR11, CDR12,  
CDR13, CDR14

**BG**

**Voltage  
Temperature  
Limits**

BG = +90±20 ppm/°C with and without  
rated voltage from -55°C to +125°C  
BP = 0±30ppm/°C with and without  
rated voltage from -55°C to +125°C

**101**

**Capacitance**

EIA Capacitance Code in pF.  
First two digits = significant figures  
or "R" for decimal place.  
Third digit = number of zeros or  
after "R" significant figures.

**A**

**Rated Voltage  
Code**

A = 50V  
B = 100V  
C = 200V  
D = 300V  
E = 500V

**K**

**Capacitance  
Tolerance Code**

B = ±.1 pF  
C = ±.25 pF  
D = ±.5 pF  
F = ±1%  
G = ±2%  
J = ±5%  
K = ±10%  
M = ±20%

**U**

**Termination  
Finish (Military  
Designations)  
Code**

M = Palladium silver  
N = Silver-nickel-gold  
S = Solder coated final with a minimum of  
4 percent lead  
T = Silver  
U = Base metallization-barrier metal-solder coated  
(tin/lead alloy, with a minimum of 4 percent lead)  
W = Base metallization-barrier metal-tinned (tin or  
tin/lead alloy)  
Y = Base metallization-barrier metal-tin (100 per-  
cent)  
Z = Base metallization-barrier metal-tinned  
(tin/lead alloy, with a minimum of 4 percent lead)  
\*See MIL-PRF-55681 Specification for more details

**S**

**Failure Rate  
Level**

M = 1.0%  
P = .1%  
R = .01%  
S = .001%

### PACKAGING

Standard Packaging Quantity

CDR11-12 = 100 pcs per waffle pack

CDR13-14 = 80 pcs per waffle pack

**TAPE & REEL:** All tape and reel specifications are in compliance with EIA RS481  
(equivalent to IEC 286 part 3).

Sizes SQCA through SQCB, CDR11/12 through 13/14.

- 8mm carrier
- 7" reel: ≤0.040" thickness = 2000 pcs  
≤0.075" thickness = 2000 pcs
- 13" reel: ≤0.075" thickness = 10,000 pcs

**Not RoHS Compliant**



For RoHS compliant products,  
please select correct termination style.



# Microwave MLC's



## CDR Series — MIL-PRF-55681 (RF/Microwave Chips)

**TABLE I: STYLES CDR11 AND CDR12 CAPACITOR CHARACTERISTICS**

| Type<br>Designation<br>1/ | Capacitance<br>in pF | Capacitance<br>tolerance | Rated temperature<br>and<br>V/Temperature | WVDC | Type<br>Designation<br>1/ | Capacitance<br>in pF | Capacitance<br>tolerance | Rated temperature<br>and<br>V/Temperature | WVDC |
|---------------------------|----------------------|--------------------------|-------------------------------------------|------|---------------------------|----------------------|--------------------------|-------------------------------------------|------|
| CDR1 -B-0R1AB--           | 0.1                  | B                        | BG, BP                                    | 50   | CDR1 -B-300A--            | 30                   | F, G, J, K, M            | BG, BP                                    | 50   |
| CDR1 -B-0R2AB--           | 0.2                  | B                        | BG, BP                                    | 50   | CDR1 -B-330A--            | 33                   | F, G, J, K, M            | BG, BP                                    | 50   |
| CDR1 -B-0R3A--            | 0.3                  | B, C                     | BG, BP                                    | 50   | CDR1 -B-360A--            | 36                   | F, G, J, K, M            | BG, BP                                    | 50   |
| CDR1 -B-0R4A--            | 0.4                  | B, C                     | BG, BP                                    | 50   | CDR1 -B-390A--            | 39                   | F, G, J, K, M            | BG, BP                                    | 50   |
| CDR1 -B-0R5A--            | 0.5                  | B, C, D                  | BG, BP                                    | 50   | CDR1 -B-430A--            | 43                   | F, G, J, K, M            | BG, BP                                    | 50   |
| CDR1 -B-0R6A--            | 0.6                  | B, C, D                  | BG, BP                                    | 50   | CDR1 -B-470A--            | 47                   | F, G, J, K, M            | BG, BP                                    | 50   |
| CDR1 -B-0R7A--            | 0.7                  | B, C, D                  | BG, BP                                    | 50   | CDR1 -B-510A--            | 51                   | F, G, J, K, M            | BG, BP                                    | 50   |
| CDR1 -B-0R8A--            | 0.8                  | B, C, D                  | BG, BP                                    | 50   | CDR1 -B-560A--            | 56                   | F, G, J, K, M            | BG, BP                                    | 50   |
| CDR1 -B-0R9A--            | 0.9                  | B, C, D                  | BG, BP                                    | 50   | CDR1 -B-620A--            | 62                   | F, G, J, K, M            | BG, BP                                    | 50   |
| CDR1 -B-1R0A--            | 1.0                  | B, C, D                  | BG, BP                                    | 50   | CDR1 -B-680A--            | 68                   | F, G, J, K, M            | BG, BP                                    | 50   |
| CDR1 -B-1R1A--            | 1.1                  | B, C, D                  | BG, BP                                    | 50   | CDR1 -B-750A--            | 75                   | F, G, J, K, M            | BG, BP                                    | 50   |
| CDR1 -B-1R2A--            | 1.2                  | B, C, D                  | BG, BP                                    | 50   | CDR1 -B-820A--            | 82                   | F, G, J, K, M            | BG, BP                                    | 50   |
| CDR1 -B-1R3A--            | 1.3                  | B, C, D                  | BG, BP                                    | 50   | CDR1 -B-910A--            | 91                   | F, G, J, K, M            | BG, BP                                    | 50   |
| CDR1 -B-1R4A--            | 1.4                  | B, C, D                  | BG, BP                                    | 50   | CDR1 -B-101A--            | 100                  | F, G, J, K, M            | BG, BP                                    | 50   |
| CDR1 -B-1R5A--            | 1.5                  | B, C, D                  | BG, BP                                    | 50   | CDR1 -B-111A--            | 110                  | F, G, J, K, M            | BP                                        | 50   |
| CDR1 -B-1R6A--            | 1.6                  | B, C, D                  | BG, BP                                    | 50   | CDR1 -B-121A--            | 120                  | F, G, J, K, M            | BP                                        | 50   |
| CDR1 -B-1R7A--            | 1.7                  | B, C, D                  | BG, BP                                    | 50   | CDR1 -B-131A--            | 130                  | F, G, J, K, M            | BP                                        | 50   |
| CDR1 -B-1R8A--            | 1.8                  | B, C, D                  | BG, BP                                    | 50   | CDR1 -B-151A--            | 150                  | F, G, J, K, M            | BP                                        | 50   |
| CDR1 -B-1R9A--            | 1.9                  | B, C, D                  | BG, BP                                    | 50   | CDR1 -B-161A--            | 160                  | F, G, J, K, M            | BP                                        | 50   |
| CDR1 -B-2R0A--            | 2.0                  | B, C, D                  | BG, BP                                    | 50   | CDR1 -B-181A--            | 180                  | F, G, J, K, M            | BP                                        | 50   |
| CDR1 -B-2R1A--            | 2.1                  | B, C, D                  | BG, BP                                    | 50   | CDR1 -B-201A--            | 200                  | F, G, J, K, M            | BP                                        | 50   |
| CDR1 -B-2R2A--            | 2.2                  | B, C, D                  | BG, BP                                    | 50   | CDR1 -B-221A--            | 220                  | F, G, J, K, M            | BP                                        | 50   |
| CDR1 -B-2R4A--            | 2.4                  | B, C, D                  | BG, BP                                    | 50   | CDR1 -B-241A--            | 240                  | F, G, J, K, M            | BP                                        | 50   |
| CDR1 -B-2R7A--            | 2.7                  | B, C, D                  | BG, BP                                    | 50   | CDR1 -B-271A--            | 270                  | F, G, J, K, M            | BP                                        | 50   |
| CDR1 -B-3R0A--            | 3.0                  | B, C, D                  | BG, BP                                    | 50   | CDR1 -B-301A--            | 300                  | F, G, J, K, M            | BP                                        | 50   |
| CDR1 -B-3R3A--            | 3.3                  | B, C, D                  | BG, BP                                    | 50   | CDR1 -B-331A--            | 330                  | F, G, J, K, M            | BP                                        | 50   |
| CDR1 -B-3R6A--            | 3.6                  | B, C, D                  | BG, BP                                    | 50   | CDR1 -B-361A--            | 360                  | F, G, J, K, M            | BP                                        | 50   |
| CDR1 -B-3R9A--            | 3.9                  | B, C, D                  | BG, BP                                    | 50   | CDR1 -B-391A--            | 390                  | F, G, J, K, M            | BP                                        | 50   |
| CDR1 -B-4R3A--            | 4.3                  | B, C, D                  | BG, BP                                    | 50   | CDR1 -B-431A--            | 430                  | F, G, J, K, M            | BP                                        | 50   |
| CDR1 -B-4R7A--            | 4.7                  | B, C, D                  | BG, BP                                    | 50   | CDR1 -B-471A--            | 470                  | F, G, J, K, M            | BP                                        | 50   |
| CDR1 -B-5R1A--            | 5.1                  | B, C, D                  | BG, BP                                    | 50   | CDR1 -B-511A--            | 510                  | F, G, J, K, M            | BP                                        | 50   |
| CDR1 -B-5R6A--            | 5.6                  | B, C, D                  | BG, BP                                    | 50   | CDR1 -B-561A--            | 560                  | F, G, J, K, M            | BP                                        | 50   |
| CDR1 -B-6R2A--            | 6.2                  | B, C, D                  | BG, BP                                    | 50   | CDR1 -B-621A--            | 620                  | F, G, J, K, M            | BP                                        | 50   |
| CDR1 -B-6R8A--            | 6.8                  | B, C, J, K, M            | BG, BP                                    | 50   | CDR1 -B-681A--            | 680                  | F, G, J, K, M            | BP                                        | 50   |
| CDR1 -B-7R5A--            | 7.5                  | B, C, J, K, M            | BG, BP                                    | 50   | CDR1 -B-751A--            | 750                  | F, G, J, K, M            | BP                                        | 50   |
| CDR1 -B-8R2A--            | 8.2                  | B, C, J, K, M            | BG, BP                                    | 50   | CDR1 -B-821A--            | 820                  | F, G, J, K, M            | BP                                        | 50   |
| CDR1 -B-9R1A--            | 9.1                  | B, C, J, K, M            | BG, BP                                    | 50   | CDR1 -B-911A--            | 910                  | F, G, J, K, M            | BP                                        | 50   |
| CDR1 -B-100A--            | 10                   | F, G, J, K, M            | BG, BP                                    | 50   | CDR1 -B-102A--            | 1000                 | F, G, J, K, M            | BP                                        | 50   |
| CDR1 -B-110A--            | 11                   | F, G, J, K, M            | BG, BP                                    | 50   |                           |                      |                          |                                           |      |
| CDR1 -B-120A--            | 12                   | F, G, J, K, M            | BG, BP                                    | 50   |                           |                      |                          |                                           |      |
| CDR1 -B-130A--            | 13                   | F, G, J, K, M            | BG, BP                                    | 50   |                           |                      |                          |                                           |      |
| CDR1 -B-150A--            | 15                   | F, G, J, K, M            | BG, BP                                    | 50   |                           |                      |                          |                                           |      |
| CDR1 -B-160A--            | 16                   | F, G, J, K, M            | BG, BP                                    | 50   |                           |                      |                          |                                           |      |
| CDR1 -B-180A--            | 18                   | F, G, J, K, M            | BG, BP                                    | 50   |                           |                      |                          |                                           |      |
| CDR1 -B-200A--            | 20                   | F, G, J, K, M            | BG, BP                                    | 50   |                           |                      |                          |                                           |      |
| CDR1 -B-220A--            | 22                   | F, G, J, K, M            | BG, BP                                    | 50   |                           |                      |                          |                                           |      |
| CDR1 -B-240A--            | 24                   | F, G, J, K, M            | BG, BP                                    | 50   |                           |                      |                          |                                           |      |
| CDR1 -B-270A--            | 27                   | F, G, J, K, M            | BG, BP                                    | 50   |                           |                      |                          |                                           |      |

1/Complete type designation will include additional symbols to indicate style, voltage-temperature limits, capacitance tolerance (where applicable), termination finish ("M" or "N" for style CDR11, and "S", "U", "W", "Y" or "Z" for style CDR12) and failure rate level.

# Microwave MLC's



## CDR Series — MIL-PRF-55681 (RF/Microwave Chips)

**TABLE II: STYLES CDR13 AND CDR14 CAPACITOR CHARACTERISTICS**

| Type Designation 1/ | Capacitance in pF | Capacitance tolerance | Rated temperature and V/Temperature | WVDC    | Type Designation 1/ | Capacitance in pF | Capacitance tolerance | Rated temperature and V/Temperature | WVDC    |
|---------------------|-------------------|-----------------------|-------------------------------------|---------|---------------------|-------------------|-----------------------|-------------------------------------|---------|
| CDR1 -B-0R1*B--     | 0.1               | B                     | BG, BP                              | 200/500 | CDR1 -B-560*---     | 56                | F, G, J, K, M         | BG, BP                              | 200/500 |
| CDR1 -B-0R2*B--     | 0.2               | B                     | BG, BP                              | 200/500 | CDR1 -B-620*---     | 62                | F, G, J, K, M         | BG, BP                              | 200/500 |
| CDR1 -B-0R3*---     | 0.3               | B, C                  | BG, BP                              | 200/500 | CDR1 -B-680*---     | 68                | F, G, J, K, M         | BG, BP                              | 200/500 |
| CDR1 -B-0R4*---     | 0.4               | B, C                  | BG, BP                              | 200/500 | CDR1 -B-750*---     | 75                | F, G, J, K, M         | BG, BP                              | 200/500 |
| CDR1 -B-0R5*---     | 0.5               | B, C, D               | BG, BP                              | 200/500 | CDR1 -B-820*---     | 82                | F, G, J, K, M         | BG, BP                              | 200/500 |
| CDR1 -B-0R6*---     | 0.6               | B, C, D               | BG, BP                              | 200/500 | CDR1 -B-910*---     | 91                | F, G, J, K, M         | BG, BP                              | 200/500 |
| CDR1 -B-0R7*---     | 0.7               | B, C, D               | BG, BP                              | 200/500 | CDR1 -B-101*---     | 100               | F, G, J, K, M         | BG, BP                              | 200/500 |
| CDR1 -B-0R8*---     | 0.8               | B, C, D               | BG, BP                              | 200/500 | CDR1 -B-111*---     | 110               | F, G, J, K, M         | BG, BP                              | 200/300 |
| CDR1 -B-0R9*---     | 0.9               | B, C, D               | BG, BP                              | 200/500 | CDR1 -B-121*---     | 120               | F, G, J, K, M         | BG, BP                              | 200/300 |
| CDR1 -B-1R0*---     | 1.0               | B, C, D               | BG, BP                              | 200/500 | CDR1 -B-131*---     | 130               | F, G, J, K, M         | BG, BP                              | 200/300 |
| CDR1 -B-1R1*---     | 1.1               | B, C, D               | BG, BP                              | 200/500 | CDR1 -B-151*---     | 150               | F, G, J, K, M         | BG, BP                              | 200/300 |
| CDR1 -B-1R2*---     | 1.2               | B, C, D               | BG, BP                              | 200/500 | CDR1 -B-161*---     | 160               | F, G, J, K, M         | BG, BP                              | 200/300 |
| CDR1 -B-1R3*---     | 1.3               | B, C, D               | BG, BP                              | 200/500 | CDR1 -B-181*---     | 180               | F, G, J, K, M         | BG, BP                              | 200/300 |
| CDR1 -B-1R4*---     | 1.4               | B, C, D               | BG, BP                              | 200/500 | CDR1 -B-201*---     | 200               | F, G, J, K, M         | BG, BP                              | 200/300 |
| CDR1 -B-1R5*---     | 1.5               | B, C, D               | BG, BP                              | 200/500 | CDR1 -B-221C---     | 220               | F, G, J, K, M         | BG, BP                              | 200     |
| CDR1 -B-1R6*---     | 1.6               | B, C, D               | BG, BP                              | 200/500 | CDR1 -B-241C---     | 240               | F, G, J, K, M         | BG, BP                              | 200     |
| CDR1 -B-1R7*---     | 1.7               | B, C, D               | BG, BP                              | 200/500 | CDR1 -B-271C---     | 270               | F, G, J, K, M         | BG, BP                              | 200     |
| CDR1 -B-1R8*---     | 1.8               | B, C, D               | BG, BP                              | 200/500 | CDR1 -B-301C---     | 300               | F, G, J, K, M         | BG, BP                              | 200     |
| CDR1 -B-1R9*---     | 1.9               | B, C, D               | BG, BP                              | 200/500 | CDR1 -B-331C---     | 330               | F, G, J, K, M         | BG, BP                              | 200     |
| CDR1 -B-2R0*---     | 2.0               | B, C, D               | BG, BP                              | 200/500 | CDR1 -B-361C---     | 360               | F, G, J, K, M         | BG, BP                              | 200     |
| CDR1 -B-2R1*---     | 2.1               | B, C, D               | BG, BP                              | 200/500 | CDR1 -B-391C---     | 390               | F, G, J, K, M         | BG, BP                              | 200     |
| CDR1 -B-2R2*---     | 2.2               | B, C, D               | BG, BP                              | 200/500 | CDR1 -B-431C---     | 430               | F, G, J, K, M         | BG, BP                              | 200     |
| CDR1 -B-2R4*---     | 2.4               | B, C, D               | BG, BP                              | 200/500 | CDR1 -B-471C---     | 470               | F, G, J, K, M         | BG, BP                              | 200     |
| CDR1 -B-2R7*---     | 2.7               | B, C, D               | BG, BP                              | 200/500 | CDR1 -B-511B---     | 510               | F, G, J, K, M         | BG, BP                              | 100     |
| CDR1 -B-3R0*---     | 3.0               | B, C, D               | BG, BP                              | 200/500 | CDR1 -B-561B---     | 560               | F, G, J, K, M         | BG, BP                              | 100     |
| CDR1 -B-3R3*---     | 3.3               | B, C, D               | BG, BP                              | 200/500 | CDR1 -B-621B---     | 620               | F, G, J, K, M         | BG, BP                              | 100     |
| CDR1 -B-3R6*---     | 3.6               | B, C, D               | BG, BP                              | 200/500 | CDR1 -B-681A---     | 680               | F, G, J, K, M         | BG, BP                              | 50      |
| CDR1 -B-3R9*---     | 3.9               | B, C, D               | BG, BP                              | 200/500 | CDR1 -B-751A---     | 750               | F, G, J, K, M         | BG, BP                              | 50      |
| CDR1 -B-4R3*---     | 4.3               | B, C, D               | BG, BP                              | 200/500 | CDR1 -B-821A---     | 820               | F, G, J, K, M         | BG, BP                              | 50      |
| CDR1 -B-4R7*---     | 4.7               | B, C, D               | BG, BP                              | 200/500 | CDR1 -B-911A---     | 910               | F, G, J, K, M         | BG, BP                              | 50      |
| CDR1 -B-5R1*---     | 5.1               | B, C, D               | BG, BP                              | 200/500 | CDR1 -B-102A---     | 1000              | F, G, J, K, M         | BG, BP                              | 50      |
| CDR1 -B-5R6*---     | 5.6               | B, C, D               | BG, BP                              | 200/500 | CDR1 -B-112A---     | 1100              | F, G, J, K, M         | BP                                  | 50      |
| CDR1 -B-6R2*---     | 6.2               | B, C, D               | BG, BP                              | 200/500 | CDR1 -B-122A---     | 1200              | F, G, J, K, M         | BP                                  | 50      |
| CDR1 -B-6R8*---     | 6.8               | B, C, J, K, M         | BG, BP                              | 200/500 | CDR1 -B-132A---     | 1300              | F, G, J, K, M         | BP                                  | 50      |
| CDR1 -B-7R5*---     | 7.5               | B, C, J, K, M         | BG, BP                              | 200/500 | CDR1 -B-152A---     | 1500              | F, G, J, K, M         | BP                                  | 50      |
| CDR1 -B-8R2*---     | 8.2               | B, C, J, K, M         | BG, BP                              | 200/500 | CDR1 -B-162A---     | 1600              | F, G, J, K, M         | BP                                  | 50      |
| CDR1 -B-9R1*---     | 9.1               | B, C, J, K, M         | BG, BP                              | 200/500 | CDR1 -B-182A---     | 1800              | F, G, J, K, M         | BP                                  | 50      |
| CDR1 -B-100*---     | 10                | F, G, J, K, M         | BG, BP                              | 200/500 | CDR1 -B-202A---     | 2000              | F, G, J, K, M         | BP                                  | 50      |
| CDR1 -B-110*---     | 11                | F, G, J, K, M         | BG, BP                              | 200/500 | CDR1 -B-222A---     | 2200              | F, G, J, K, M         | BP                                  | 50      |
| CDR1 -B-120*---     | 12                | F, G, J, K, M         | BG, BP                              | 200/500 | CDR1 -B-242A---     | 2400              | F, G, J, K, M         | BP                                  | 50      |
| CDR1 -B-130*---     | 13                | F, G, J, K, M         | BG, BP                              | 200/500 | CDR1 -B-272A---     | 2700              | F, G, J, K, M         | BP                                  | 50      |
| CDR1 -B-150*---     | 15                | F, G, J, K, M         | BG, BP                              | 200/500 | CDR1 -B-302A---     | 3000              | F, G, J, K, M         | BP                                  | 50      |
| CDR1 -B-160*---     | 16                | F, G, J, K, M         | BG, BP                              | 200/500 | CDR1 -B-332A---     | 3300              | F, G, J, K, M         | BP                                  | 50      |
| CDR1 -B-180*---     | 18                | F, G, J, K, M         | BG, BP                              | 200/500 | CDR1 -B-362A---     | 3600              | F, G, J, K, M         | BP                                  | 50      |
| CDR1 -B-200*---     | 20                | F, G, J, K, M         | BG, BP                              | 200/500 | CDR1 -B-392A---     | 3900              | F, G, J, K, M         | BP                                  | 50      |
| CDR1 -B-220*---     | 22                | F, G, J, K, M         | BG, BP                              | 200/500 | CDR1 -B-432A---     | 4300              | F, G, J, K, M         | BP                                  | 50      |
| CDR1 -B-240*---     | 24                | F, G, J, K, M         | BG, BP                              | 200/500 | CDR1 -B-472A---     | 4700              | F, G, J, K, M         | BP                                  | 50      |
| CDR1 -B-270*---     | 27                | F, G, J, K, M         | BG, BP                              | 200/500 | CDR1 -B-502A---     | 5000              | F, G, J, K, M         | BP                                  | 50      |
| CDR1 -B-300*---     | 30                | F, G, J, K, M         | BG, BP                              | 200/500 | CDR1 -B-512A---     | 5100              | F, G, J, K, M         | BP                                  | 50      |
| CDR1 -B-330*---     | 33                | F, G, J, K, M         | BG, BP                              | 200/500 |                     |                   |                       |                                     |         |
| CDR1 -B-360*---     | 36                | F, G, J, K, M         | BG, BP                              | 200/500 |                     |                   |                       |                                     |         |
| CDR1 -B-390*---     | 39                | F, G, J, K, M         | BG, BP                              | 200/500 |                     |                   |                       |                                     |         |
| CDR1 -B-430*---     | 43                | F, G, J, K, M         | BG, BP                              | 200/500 |                     |                   |                       |                                     |         |
| CDR1 -B-470*---     | 47                | F, G, J, K, M         | BG, BP                              | 200/500 |                     |                   |                       |                                     |         |
| CDR1 -B-510*---     | 51                | F, G, J, K, M         | BG, BP                              | 200/500 |                     |                   |                       |                                     |         |

1/Complete type designation will include additional symbols to indicate style, voltage-temperature limits, capacitance tolerance (where applicable), termination finish ("M" or "N" for style CDR13, and "S", "U", "W", "Y" or "Z" for style CDR14) and failure rate level.

\*C=200V; E=500V.

‡C=200V; D=300V.