

MILITARY SPECIFICATION PART NUMBERS CDR13 & CDR14 — MIL-PRF-55681

CAPACITOR CHARACTERISTICS — SIZE 1010

| Type Designation | Cap. (pF) | Cap. Tolerance | Rated Temp. & Voltage-Temp. Limits | Rated Voltage (V dc) |
|--------------------|-----------|----------------|------------------------------------|----------------------|
| CDR1-BP0R1-B -- | 0.1 | B | BP | 200, 500 |
| CDR1-BP0R2-B -- | 0.2 | B | BP | 200, 500 |
| CDR1-BP0R3 - - - - | 0.3 | B, C | BP | 200, 500 |
| CDR1-BP0R4 - - - - | 0.4 | B, C | BP | 200, 500 |
| CDR1-BP0R5 - - - - | 0.5 | B, C, D | BP | 200, 500 |
| CDR1-BP0R6 - - - - | 0.6 | B, C, D | BP | 200, 500 |
| CDR1-BP0R7 - - - - | 0.7 | B, C, D | BP | 200, 500 |
| CDR1-BP0R8 - - - - | 0.8 | B, C, D | BP | 200, 500 |
| CDR1-BP0R9 - - - - | 0.9 | B, C, D | BP | 200, 500 |
| CDR1-BP1R0 - - - - | 1 | B, C, D | BP | 200, 500 |
| CDR1-BP1R1 - - - - | 1.1 | B, C, D | BP | 200, 500 |
| CDR1-BP1R2 - - - - | 1.2 | B, C, D | BP | 200, 500 |
| CDR1-BP1R3 - - - - | 1.3 | B, C, D | BP | 200, 500 |
| CDR1-BP1R4 - - - - | 1.4 | B, C, D | BP | 200, 500 |
| CDR1-BP1R5 - - - - | 1.5 | B, C, D | BP | 200, 500 |
| CDR1-BP1R6 - - - - | 1.6 | B, C, D | BP | 200, 500 |
| CDR1-BP1R7 - - - - | 1.7 | B, C, D | BP | 200, 500 |
| CDR1-BP1R8 - - - - | 1.8 | B, C, D | BP | 200, 500 |
| CDR1-BP1R9 - - - - | 1.9 | B, C, D | BP | 200, 500 |
| CDR1-BP2R0 - - - - | 2 | B, C, D | BP | 200, 500 |
| CDR1-BP2R1 - - - - | 2.1 | B, C, D | BP | 200, 500 |
| CDR1-BP2R2 - - - - | 2.2 | B, C, D | BP | 200, 500 |
| CDR1-BP2R4 - - - - | 2.4 | B, C, D | BP | 200, 500 |
| CDR1-BP2R7 - - - - | 2.7 | B, C, D | BP | 200, 500 |
| CDR1-BP3R0 - - - - | 3 | B, C, D | BP | 200, 500 |
| CDR1-BP3R3 - - - - | 3.3 | B, C, D | BP | 200, 500 |
| CDR1-BP3R6 - - - - | 3.6 | B, C, D | BP | 200, 500 |
| CDR1-BP3R9 - - - - | 3.9 | B, C, D | BP | 200, 500 |
| CDR1-BP4R3 - - - - | 4.3 | B, C, D | BP | 200, 500 |
| CDR1-BP4R7 - - - - | 4.7 | B, C, D | BP | 200, 500 |
| CDR1-BP5R1 - - - - | 5.1 | B, C, D | BP | 200, 500 |
| CDR1-BP5R6 - - - - | 5.6 | B, C, D | BP | 200, 500 |
| CDR1-BP6R2 - - - - | 6.2 | B, C, D | BP | 200, 500 |
| CDR1-BP6R8 - - - - | 6.8 | B, C, J, K, M | BP | 200, 500 |
| CDR1-BP7R5 - - - - | 7.5 | B, C, J, K, M | BP | 200, 500 |
| CDR1-BP8R2 - - - - | 8.2 | B, C, J, K, M | BP | 200, 500 |
| CDR1-BP9R1 - - - - | 9.1 | B, C, J, K, M | BP | 200, 500 |
| CDR1-BP100 - - - - | 10 | F, G, J, K, M | BP | 200, 500 |
| CDR1-BP110 - - - - | 11 | F, G, J, K, M | BP | 200, 500 |
| CDR1-BP120 - - - - | 12 | F, G, J, K, M | BP | 200, 500 |
| CDR1-BP130 - - - - | 13 | F, G, J, K, M | BP | 200, 500 |
| CDR1-BP150 - - - - | 15 | F, G, J, K, M | BP | 200, 500 |
| CDR1-BP160 - - - - | 16 | F, G, J, K, M | BP | 200, 500 |

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|---------------------|-----------|----------------|------------------------------------|----------------------|
| CDR1-BP180 - - - - | 18 | F, G, J, K, M | BP | 200, 500 |
| CDR1-BP200 - - - - | 20 | F, G, J, K, M | BP | 200, 500 |
| CDR1-BP220 - - - - | 22 | F, G, J, K, M | BP | 200, 500 |
| CDR1-BP240 - - - - | 24 | F, G, J, K, M | BP | 200, 500 |
| CDR1-BP270 - - - - | 27 | F, G, J, K, M | BP | 200, 500 |
| CDR1-BP300 - - - - | 30 | F, G, J, K, M | BP | 200, 500 |
| CDR1-BP330 - - - - | 33 | F, G, J, K, M | BP | 200, 500 |
| CDR1-BP360 - - - - | 36 | F, G, J, K, M | BP | 200, 500 |
| CDR1-BP390 - - - - | 39 | F, G, J, K, M | BP | 200, 500 |
| CDR1-BP430 - - - - | 43 | F, G, J, K, M | BP | 200, 500 |
| CDR1-BP470 - - - - | 47 | F, G, J, K, M | BP | 200, 500 |
| CDR1-BP510 - - - - | 51 | F, G, J, K, M | BP | 200, 500 |
| CDR1-BP560 - - - - | 56 | F, G, J, K, M | BP | 200, 500 |
| CDR1-BP620 - - - - | 62 | F, G, J, K, M | BP | 200, 500 |
| CDR1-BP680 - - - - | 68 | F, G, J, K, M | BP | 200, 500 |
| CDR1-BP750 - - - - | 75 | F, G, J, K, M | BP | 200, 500 |
| CDR1-BP820 - - - - | 82 | F, G, J, K, M | BP | 200, 500 |
| CDR1-BP910 - - - - | 91 | F, G, J, K, M | BP | 200, 500 |
| CDR1-BP101 - - - - | 100 | F, G, J, K, M | BP | 200, 500 |
| CDR1-BP111 - - - - | 110 | F, G, J, K, M | BP | 200, 300 |
| CDR1-BP121 - - - - | 120 | F, G, J, K, M | BP | 200, 300 |
| CDR1-BP131 - - - - | 130 | F, G, J, K, M | BP | 200, 300 |
| CDR1-BP151 - - - - | 150 | F, G, J, K, M | BP | 200, 300 |
| CDR1-BP161 - - - - | 160 | F, G, J, K, M | BP | 200, 300 |
| CDR1-BP181 - - - - | 180 | F, G, J, K, M | BP | 200, 300 |
| CDR1-BP201 - - - - | 200 | F, G, J, K, M | BP | 200, 300 |
| CDR1-BP221C - - - - | 220 | F, G, J, K, M | BP | 200 |
| CDR1-BP241C - - - - | 240 | F, G, J, K, M | BP | 200 |
| CDR1-BP271C - - - - | 270 | F, G, J, K, M | BP | 200 |
| CDR1-BP301C - - - - | 300 | F, G, J, K, M | BP | 200 |
| CDR1-BP331C - - - - | 330 | F, G, J, K, M | BP | 200 |
| CDR1-BP361C - - - - | 360 | F, G, J, K, M | BP | 200 |
| CDR1-BP391C - - - - | 390 | F, G, J, K, M | BP | 200 |
| CDR1-BP431C - - - - | 430 | F, G, J, K, M | BP | 200 |
| CDR1-BP471C - - - - | 470 | F, G, J, K, M | BP | 200 |

| SPACE LEVEL 'S' | | DLA DWG 06022 | | |
|-------------------|-----------|----------------|------------------------------------|----------------------|
| Type Designation | Cap. (pF) | Cap. Tolerance | Rated Temp. & Voltage-Temp. Limits | Rated Voltage (V dc) |
| CDR1-BP511B - - - | 510 | F, G, J, K, M | BP | 100 |
| CDR1-BP561B - - - | 560 | F, G, J, K, M | BP | 100 |
| CDR1-BP621B - - - | 620 | F, G, J, K, M | BP | 100 |
| CDR1-BP681A - - - | 680 | F, G, J, K, M | BP | 50 |
| CDR1-BP751A - - - | 750 | F, G, J, K, M | BP | 50 |
| CDR1-BP821A - - - | 820 | F, G, J, K, M | BP | 50 |
| CDR1-BP911A - - - | 910 | F, G, J, K, M | BP | 50 |
| CDR1-BP102A - - - | 1,000 | F, G, J, K, M | BP | 50 |
| CDR1-BP112A - - - | 1,100 | F, G, J, K, M | BP | 50 |
| CDR1-BP122A - - - | 1,200 | F, G, J, K, M | BP | 50 |
| CDR1-BP132A - - - | 1,300 | F, G, J, K, M | BP | 50 |
| CDR1-BP152A - - - | 1,500 | F, G, J, K, M | BP | 50 |
| CDR1-BP162A - - - | 1,600 | F, G, J, K, M | BP | 50 |
| CDR1-BP182A - - - | 1,800 | F, G, J, K, M | BP | 50 |
| CDR1-BP202A - - - | 2,000 | F, G, J, K, M | BP | 50 |
| CDR1-BP222A - - - | 2,200 | F, G, J, K, M | BP | 50 |
| CDR1-BP242A - - - | 2,400 | F, G, J, K, M | BP | 50 |
| CDR1-BP272A - - - | 2,700 | F, G, J, K, M | BP | 50 |
| CDR1-BP302A - - - | 3,000 | F, G, J, K, M | BP | 50 |
| CDR1-BP332A - - - | 3,300 | F, G, J, K, M | BP | 50 |
| CDR1-BP362A - - - | 3,600 | F, G, J, K, M | BP | 50 |
| CDR1-BP392A - - - | 3,900 | F, G, J, K, M | BP | 50 |
| CDR1-BP432A - - - | 4,300 | F, G, J, K, M | BP | 50 |
| CDR1-BP472A - - - | 4,700 | F, G, J, K, M | BP | 50 |
| CDR1-BP502A - - - | 5,000 | F, G, J, K, M | BP | 50 |
| CDR1-BP522A - - - | 5,100 | F, G, J, K, M | BP | 50 |

PART NUMBER EXAMPLE (How to Order)

| CDR13 | | BP | 101 | C | F | M | S |
|-----------|-----------------------------------|---------------------|----------------------------------|---|--|------------|---|
| Mil Style | Voltage Temperature Limits | Capacitance | Rated Voltage Code | Cap Tolerance Code | Termination Finish | | Failure Rate Level |
| CDR13 | BP = 0±30ppm/°C BG=90±20ppm/°C | 3 Digit EIA Code | C = 200V D = 300V E = 500V | B = ± .10 pF < 10pF C = ± .25 pF < 10 pF D = ± .50 pF < 10 pF | M = Palladium/Silver N = Silver-Nickel-Gold | CDR13 Only | M = 1.0% P = 0.1% R = 0.01% S = 0.001% |
| CDR14 | | | | F = ± 1% G = ± 2% J = ± 5% K = ± 10% M = ± 20% | | | |

DIMENSIONS — CDR13 AND CDR14 CAPACITORS

| Style Per MIL-C-55681 | Length (L) Inches (mm) | Width (W) Inches (mm) | Thickness (T) Min Inches (mm) | Thickness (T) Max Inches (mm) | Metalization Band (M.B.) Inches (mm) |
|-----------------------|--|----------------------------------|-------------------------------|-------------------------------|--------------------------------------|
| CDR13 | 0.110 ± 0.020 (2.794 ± 0.508) | 0.110 ± 0.020 (2.794 ± 0.508) | 0.030 (0.762) | 0.102 (2.591) | 0.015 ± 0.010 (0.381 ± 0.254) |
| CDR14 | 0.110 – 0.020 + 0.035 (2.794 – 0.508 + 0.889) | 0.110 ± 0.020 (2.794 ± 0.508) | 0.030 (0.762) | 0.102 (2.591) | 0.015 ± 0.010 (0.381 ± 0.254) |