

MILITARY SPECIFICATION PART NUMBERS CDR11 AND CDR12 – MIL-PRF-55681

CAPACITOR CHARACTERISTICS – SIZE 0505

Type Designation	Capacitance (pF)	Cap. Tolerance	Rated Temp. & Voltage-Temp. Limits	Rated Voltage (V dc)
CDR1-B-0R1-B --	0.1	B	BG, BP	50, 150
CDR1-B-0R2-B --	0.2	B	BG, BP	50, 150
CDR1-B-0R3 - - - -	0.3	B, C	BG, BP	50, 150
CDR1-B-0R4 - - - -	0.4	B, C	BG, BP	50, 150
CDR1-B-0R5 - - - -	0.5	B, C, D	BG, BP	50, 150
CDR1-B-0R6 - - - -	0.6	B, C, D	BG, BP	50, 150
CDR1-B-0R7 - - - -	0.7	B, C, D	BG, BP	50, 150
CDR1-B-0R8 - - - -	0.8	B, C, D	BG, BP	50, 150
CDR1-B-0R9 - - - -	0.9	B, C, D	BG, BP	50, 150
CDR1-B-1R0 - - - -	1	B, C, D	BG, BP	50, 150
CDR1-B-1R1 - - - -	1.1	B, C, D	BG, BP	50, 150
CDR1-B-1R2 - - - -	1.2	B, C, D	BG, BP	50, 150
CDR1-B-1R3 - - - -	1.3	B, C, D	BC, BP	50, 150
CDR1-B-1R4 - - - -	1.4	B, C, D	BG, BP	50, 150
CDR1-B-1R5 - - - -	1.5	B, C, D	BG, BP	50, 150
CDR1-B-1R6 - - - -	1.6	B, C, D	BG, BP	50, 150
CDR1-B-1R7 - - - -	1.7	B, C, D	BG, BP	50, 150
CDR1-B-1R8 - - - -	1.8	B, C, D	BG, BP	50, 150
CDR1-B-1R9 - - - -	1.9	B, C, D	BG, BP	50, 150
CDR1-B-2R0 - - - -	2	B, C, D	BG, BP	50, 150
CDR1-B-2R1 - - - -	2.1	B, C, D	BG, BP	50, 150
CDR1-B-2R2 - - - -	2.2	B, C, D	BG, BP	50, 150
CDR1-B-2R4 - - - -	2.4	B, C, D	BG, BP	50, 150
CDR1-B-2R7 - - - -	2.7	B, C, D	BG, BP	50, 150
CDR1-B-3R0 - - - -	3	B, C, D	BC, BP	50, 150
CDR1-B-3R3 - - - -	3.3	B, C, D	BG, BP	50, 150
CDR1-B-3R6 - - - -	3.6	B, C, D	BG, BP	50, 150
CDR1-B-3R9 - - - -	3.9	B, C, D	BG, BP	50, 150
CDR1-B-4R3 - - - -	4.3	8, C, D	BG, BP	50, 150
CDR1-B-4R7 - - - -	4.7	B, C, D	BG, BP	50, 150
CDR1-B-5R1 - - - -	5.1	B, C, D	BG, BP	50, 150
CDR1-B-5R6 - - - -	5.6	B, C, D	BG, BP	50, 150
CDR1-B-6R2 - - - -	6.2	B, C, D	BG, BP	50, 150
CDR1-B-6R8 - - - -	6.8	B, C, J, K, M	BC, BP	50, 150
CDR1-B-7R5 - - - -	7.5	B, C, J, K, M	BG, BP	50, 150
CDR1-B-8R2 - - - -	8.2	B, C, J, K, M	BG, BP	50, 150
CDR1-B-9R1 - - - -	9.1	B, C, J, K, M	BG, BP	50, 150
CDR1-B-100 - - - -	10	F, G, J, K, M	BG, BP	50, 150
CDR1-B-110 - - - -	11	F, G, J, K, M	BG, BP	50, 150
CDR1-B-120 - - - -	12	F, G, J, K, M	BG, BP	50, 150
CDR1-B-130 - - - -	13	F, G, J, K, M	BG, BP	50, 150
CDR1-B-150 - - - -	15	F, G, J, K, M	BG, BP	50, 150
CDR1-B-160 - - - -	16	F, G, J, K, M	BG, BP	50, 150

SPACE LEVEL 'S'

DSCC DWG 06019

Type Designation	Capacitance (pF)	Cap. Tolerance	Rated Temp. & Voltage-Temp. Limits	Rated Voltage (V dc)
CDR1-B-180 - - - -	18	F, G, J, K, M	BG, BP	50, 150
CDR1-B-200 - - - -	20	F, G, J, K, M	BG, BP	50, 150
CDR1-B-220 - - - -	22	F, G, J, K, M	BG, BP	50, 150
CDR1-B-240 - - - -	24	F, G, J, K, M	BG, BP	50, 150
CDR1-B-270 - - - -	27	F, G, J, K, M	BG, BP	50, 150
CDR1-B-300 - - - -	30	F, G, J, K, M	BG, BP	50, 150
CDR1-B-330 - - - -	33	F, G, J, K, M	BG, BP	50, 150
CDR1-B-360 - - - -	36	F, G, J, K, M	BG, BP	50, 150
CDR1-B-390 - - - -	39	F, G, J, K, M	BG, BP	50, 150
CDR1-B-430 - - - -	43	F, G, J, K, M	BG, BP	50, 150
CDR1-B-470 - - - -	47	F, G, J, K, M	BG, BP	50, 150
CDR1-B-510 - - - -	51	F, G, J, K, M	BG, BP	50, 150
CDR1-B-560 - - - -	56	F, G, J, K, M	BG, BP	50, 150
CDR1-B-620 - - - -	62	F, G, J, K, M	BG, BP	50, 150
CDR1-B-680 - - - -	68	F, G, J, K, M	BG, BP	50, 150
CDR1-B-750 - - - -	75	F, G, J, K, M	BG, BP	50, 150
CDR1-B-820 - - - -	82	F, G, J, K, M	BG, BP	50, 150
CDR1-B-910 - - - -	91	F, G, J, K, M	BG, BP	50, 150
CDR1-B-101 - - - -	100	F, G, J, K, M	BG, BP	50, 150
CDR1-BP111A - - -	110	F, G, J, K, M	BP	50, 100
CDR1-BP121A - - -	120	F, G, J, K, M	BP	50, 100
CDR1-BP131A - - -	130	F, G, J, K, M	BP	50, 100
CDR1-BP151A - - -	150	F, G, J, K, M	BP	50, 100
CDR1-BP161A - - -	160	F, G, J, K, M	BP	50, 100
CDR1-BP181A - - -	180	F, G, J, K, M	BP	50, 100
CDR1-BP201A - - -	200	F, G, J, K, M	BP	50, 100
CDR1-BP221A - - -	220	F, G, J, K, M	BP	50, 100
CDR1-BP241A - - -	240	F, G, J, K, M	BP	50, 100
CDR1-BP271A - - -	270	F, G, J, K, M	BP	50, 100
CDR1-BP301A - - -	300	F, G, J, K, M	BP	50, 100
CDR1-BP331A - - -	330	F, G, J, K, M	BP	50, 100
CDR1-BP361A - - -	360	F, G, J, K, M	BP	50, 100
CDR1-BP391A - - -	390	F, G, J, K, M	BP	50, 100
CDR1-BP431A - - -	430	F, G, J, K, M	BP	50, 100
CDR1-BP471A - - -	470	F, G, J, K, M	BP	50, 100
CDR1-BP511A - - -	510	F, G, J, K, M	BP	50, 100
CDR1-BP561A - - -	560	F, G, J, K, M	BP	50, 100
CDR1-BP621A - - -	620	F, G, J, K, M	BP	50, 100
CDR1-BP681A - - -	680	F, G, J, K, M	BP	50, 100
CDR1-BP751A - - -	750	F, G, J, K, M	BP	50, 100
CDR1-BP821A - - -	820	F, G, J, K, M	BP	50, 100
CDR1-BP911A - - -	910	F, G, J, K, M	BP	50, 100
CDR1-BP102A - - -	1,000	F, G, J, K, M	BP	50, 100

PART NUMBER EXAMPLE (How to Order)

Visit our website for the complete MIL-PRF-55681 Specification

CDR11	BP	101	A	F	M	S	
Mil Style	Voltage Temperature Limits	Capacitance	Rated Voltage Code	Cap Tolerance Code	Termination Finish		Failure Rate Level
CDR11 CDR12	BG = 90 ± 20 ppm / °C	3 Digit EIA Code	A = 50V B = 100V K = 150V	B = ± .10 pF < 10pF C = ± .25 pF < 10 pF D = ± .50 pF < 10 pF F = ± 1% G = ± 2% J = ± 5% K = ± 10% M = ± 20%	M = Palladium/Silver	CDR11 Only	M = 1.0% P = 0.1% R = 0.01% S = 0.001%
	BP = 0 ± 30 ppm / °C				S = Solder Coated, Final with a Minimum of 4% Lead U = Base Metalization, Barrier Metal, Solder Coated (Tin/Lead Alloy with a Minimum of 4% Lead) W = Base Metalization, Barrier Metal, Tinned (Tin or Tin/Lead Alloy) Z = Base Metalization, Barrier Metal, Tinned (Tin/Lead Alloy with Minimum of 4% Lead)		

DIMENSIONS – CDR11 AND CDR12 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)
CDR11	0.055 ± 0.015 (1.40 ± 0.381)	0.055 ± 0.015 (1.40 ± 0.381)	0.020 (0.508)	0.057 (1.45)	0.010 – 0.005 + 0.010 (0.254 – 0.127 + 0.254)
CDR12	0.055 ± 0.025 (1.40 ± 0.635)	0.055 ± 0.015 (1.40 ± 0.381)	0.020 (0.508)	0.057 (1.45)	0.010 – 0.005 + 0.010 (0.254 – 0.127 + 0.254)

See capacitor diagram on Page 15.

Consult factory for current qualification status.