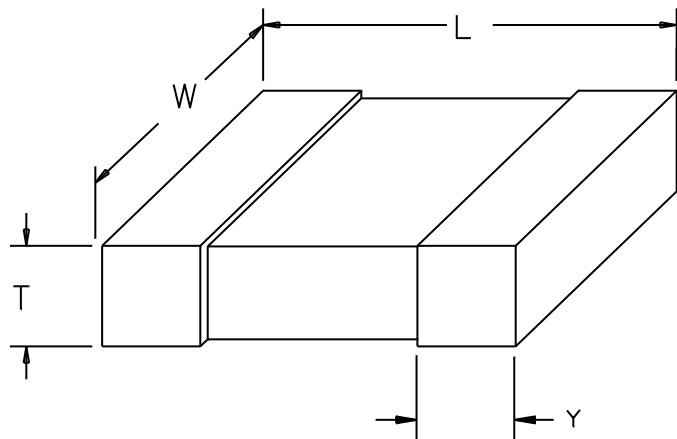


PERFORMANCE SPECIFICATION SHEET

CAPACITOR, CHIP, MULTIPLE LAYER, FIXED, CERAMIC DIELECTRIC,
ESTABLISHED RELIABILITY AND NON-ESTABLISHED RELIABILITY,
STYLE CDR36

This specification sheet is approved for use by all Departments
and Agencies of the Department of Defense.

The requirements for acquiring the product described herein
shall consist of this specification sheet and [MIL-PRF-55681](#).



Dimensions			
L ± .006	W ± .006	T Max.	Y ± .008
.063	.032	.039	.016

inches	mm
.006	0.15
.008	0.20
.016	0.41
.032	0.81
.039	0.99
.063	1.60

- NOTES:
- 1. Dimensions are in inches.
 - 2. Metric equivalents are given for information only.
 - 3. Dimensions and tolerances are for terminated chips.
 - 4. For solder termination finishes, add .020 inch (0.51 mm) to the positive length tolerance and .015 inch (0.38 mm) to the positive width and thickness tolerances. The increase in dimension applies to the solder coating thickness only.

FIGURE 1. Style CDR36 capacitors.

REQUIREMENTS:

Dimensions and configuration: See [figure 1](#).

Rated temperature and voltage-temperature limits: BP, BX, and BR as specified in [MIL-PRF-55681](#).

Capacitance value: See [table I](#).

Capacitance tolerance:

Symbol	Capacitance tolerance ($\pm$)
C	0.25 pF
D	0.5 pF
F	1 percent
G	2 percent
J	5 percent
K	10 percent
M	20 percent

Rated voltage:

Symbol	Rated voltage (V_{dc})
V	4
W	6.3
X	10
Y	16
Z	25
A	50
B	100

Operating temperature range: -55° C to +125° C.

Termination finish: M, U, and Z as specified in [MIL-PRF-55681](#).

Product level designator: Non-established reliability (C) and established reliability (M, P, R, and S) as specified in [MIL-PRF-55681](#).

Marking: In accordance with [MIL-PRF-55681](#).

TABLE I. Style CDR36 capacitor characteristics.

Part or Identifying Number (PIN) 1/	Capacitance (pF)	Capacitance tolerance	Rated temperature and voltage- temperature limits	Rated voltage (V _{dc}) 2/
CDR36BP0R5- ---	.5	C, D	BP	100
CDR36BPR75- ---	.75	C, D	BP	100
CDR36BP1R0- ---	1	C, D	BP	100
CDR36BP1R2- ---	1.2	C, D	BP	100
CDR36BP1R5- ---	1.5	C, D	BP	100
CDR36BP1R8- ---	1.8	C, D	BP	100
CDR36BP2R2- ---	2.2	C, D	BP	100
CDR36BP2R4- ---	2.4	C, D	BP	100
CDR36BP2R7- ---	2.7	C, D	BP	100
CDR36BP3R0- ---	3	C, D	BP	100
CDR36BP3R3- ---	3.3	C, D	BP	100
CDR36BP3R6- ---	3.6	C, D	BP	100
CDR36BP3R9- ---	3.9	C, D	BP	100
CDR36BP4R7- ---	4.7	C, D	BP	100
CDR36BP5R1- ---	5.1	C, D	BP	100
CDR36BP5R6- ---	5.6	C, D	BP	100
CDR36BP6R2- ---	6.2	C, D	BP	100
CDR36BP6R8- ---	6.8	C, D	BP	100
CDR36BP7R5- ---	7.5	C, D	BP	100
CDR36BP8R2- ---	8.2	C, D	BP	100
CDR36BP9R1- ---	9.1	C, D	BP	100
CDR36BP100- ---	10	F, G, J	BP	100
CDR36BP110- ---	11	F, G, J	BP	100
CDR36BP120- ---	12	F, G, J	BP	100
CDR36BP130- ---	13	F, G, J	BP	100
CDR36BP150- ---	15	F, G, J	BP	100
CDR36BP160- ---	16	F, G, J	BP	100
CDR36BP180- ---	18	F, G, J	BP	100
CDR36BP200- ---	20	F, G, J	BP	100
CDR36BP220- ---	22	F, G, J	BP	100
CDR36BP240- ---	24	F, G, J	BP	100
CDR36BP270- ---	27	F, G, J	BP	100
CDR36BP300- ---	30	F, G, J	BP	100
CDR36BP330- ---	33	F, G, J	BP	100
CDR36BP360- ---	36	F, G, J	BP	100
CDR36BP390- ---	39	F, G, J	BP	100
CDR36BP430- ---	43	F, G, J	BP	100
CDR36BP470- ---	47	F, G, J	BP	100
CDR36BP510- ---	51	F, G, J	BP	100
CDR36BP560- ---	56	F, G, J	BP	100
CDR36BP620- ---	62	F, G, J	BP	100
CDR36BP680- ---	68	F, G, J	BP	100
CDR36BP750- ---	75	F, G, J	BP	100
CDR36BP820- ---	82	F, G, J	BP	100
CDR36BP910- ---	91	F, G, J	BP	100
CDR36BP101- ---	100	F, G, J	BP	100
CDR36BP121- ---	120	F, G, J	BP	100
CDR36BP151- ---	150	F, G, J	BP	100
CDR36BP181- ---	180	F, G, J	BP	100
CDR36BP221- ---	220	F, G, J	BP	100

See footnotes at end of table.

TABLE I. Style CDR36 capacitor characteristics - Continued.

Part or Identifying Number (PIN) 1/	Capacitance (pF)	Capacitance tolerance	Rated temperature and voltage- temperature limits	Rated voltage (V _{dc}) 2/
CDR36BP271- ---	270	F, G, J	BP	100
CDR36BP331- ---	330	F, G, J	BP	100
CDR36BP391- ---	390	F, G, J	BP	50
CDR36BP471- ---	470	F, G, J	BP	50
CDR36BP561- ---	560	F, G, J	BP	50
CDR36BP681- ---	680	F, G, J	BP	50
CDR36BP821- ---	820	F, G, J	BP	50
CDR36BP102- ---	1,000	F, G, J	BP	50
CDR36BP122- ---	1,200	F, G, J	BP	25
CDR36BP152- ---	1,500	F, G, J	BP	25
CDR36BX101- ---	100	J, K, M	BX	100
CDR36BX121- ---	120	J, K, M	BX	100
CDR36BX151- ---	150	J, K, M	BX	100
CDR36BX181- ---	180	J, K, M	BX	100
CDR36BX221- ---	220	J, K, M	BX	100
CDR36BX271- ---	270	J, K, M	BX	100
CDR36BX331- ---	330	J, K, M	BX	100
CDR36BX391- ---	390	J, K, M	BX	100
CDR36BX471- ---	470	J, K, M	BX	100
CDR36BX561- ---	560	J, K, M	BX	100
CDR36BX681- ---	680	J, K, M	BX	100
CDR36BX821- ---	820	J, K, M	BX	100
CDR36BX102- ---	1,000	J, K, M	BX	100
CDR36BX122- ---	1,200	J, K, M	BX	100
CDR36BX152- ---	1,500	J, K, M	BX	100
CDR36BX182- ---	1,800	J, K, M	BX	100
CDR36BX222- ---	2,200	J, K, M	BX	100
CDR36BX272- ---	2,700	J, K, M	BX	100
CDR36BX332- ---	3,300	J, K, M	BX	50
CDR36BX392- ---	3,900	J, K, M	BX	50
CDR36BX472- ---	4,700	J, K, M	BX	50
CDR36BX562- ---	5,600	J, K, M	BX	50
CDR36BX682- ---	6,800	J, K, M	BX	50
CDR36BX822- ---	8,200	J, K, M	BX	50
CDR36BX103- ---	10,000	J, K, M	BX	50
CDR36BX123- ---	12,000	J, K, M	BX	25
CDR36BX153- ---	15,000	J, K, M	BX	25
CDR36BX183- ---	18,000	J, K, M	BX	25
CDR36BX223- ---	22,000	J, K, M	BX	25
CDR36BX273- ---	27,000	J, K, M	BX	25
CDR36BX333- ---	33,000	J, K, M	BX	16
CDR36BX393- ---	39,000	J, K, M	BX	16
CDR36BX473- ---	47,000	J, K, M	BX	16
CDR36BX563- ---	56,000	J, K, M	BX	16
CDR36BX683- ---	68,000	J, K, M	BX	16
CDR36BX823- ---	82,000	J, K, M	BX	16
CDR36BX104- ---	100,000	J, K, M	BX	16
CDR36BR101- ---	100	J, K, M	BR	200
CDR36BR121- ---	120	J, K, M	BR	200
CDR36BR151- ---	150	J, K, M	BR	200

See footnotes at end of table.

TABLE I. Style CDR36 capacitor characteristics - Continued.

Part or Identifying Number (PIN) <u>1/</u>	Capacitance (pF)	Capacitance tolerance	Rated temperature and voltage- temperature limits	Rated voltage (V _{dc}) <u>2/</u>
CDR36BR181- ---	180	J, K, M	BR	200
CDR36BR221- ---	220	J, K, M	BR	200
CDR36BR271- ---	270	J, K, M	BR	200
CDR36BR331- ---	330	J, K, M	BR	200
CDR36BR391- ---	390	J, K, M	BR	200
CDR36BR471- ---	470	J, K, M	BR	200
CDR36BR561- ---	560	J, K, M	BR	200
CDR36BR681- ---	680	J, K, M	BR	200
CDR36BR821- ---	820	J, K, M	BR	200
CDR36BR102- ---	1,000	J, K, M	BR	200
CDR36BR122- ---	1,200	J, K, M	BR	100
CDR36BR152- ---	1,500	J, K, M	BR	100
CDR36BR182- ---	1,800	J, K, M	BR	100
CDR36BR222- ---	2,200	J, K, M	BR	100
CDR36BR272- ---	2,700	J, K, M	BR	100
CDR36BR332- ---	3,300	J, K, M	BR	100
CDR36BR392- ---	3,900	J, K, M	BR	100
CDR36BR472- ---	4,700	J, K, M	BR	100
CDR36BR562- ---	5,600	J, K, M	BR	100
CDR36BR682- ---	6,800	J, K, M	BR	100
CDR36BR822- ---	8,200	J, K, M	BR	100
CDR36BR103- ---	10,000	J, K, M	BR	50
CDR36BR123- ---	12,000	J, K, M	BR	50
CDR36BR153- ---	15,000	J, K, M	BR	50
CDR36BR183- ---	18,000	J, K, M	BR	50
CDR36BR223- ---	22,000	J, K, M	BR	50
CDR36BR273- ---	27,000	J, K, M	BR	50
CDR36BR333- ---	33,000	J, K, M	BR	25
CDR36BR393- ---	39,000	J, K, M	BR	25
CDR36BR473- ---	47,000	J, K, M	BR	25
CDR36BR563- ---	56,000	J, K, M	BR	25
CDR36BR683- ---	68,000	J, K, M	BR	16
CDR36BR823- ---	82,000	J, K, M	BR	16
CDR36BR104- ---	100,000	J, K, M	BR	16

1/ The complete PIN shall include additional symbols to indicate voltage, capacitance tolerance, termination, and product level.

2/ This is the maximum rated voltage available. All lower voltage ratings are also available.

Custodians:

Army - CR
Navy - EC
Air Force – 85
DLA – CC

Preparing activity:
DLA - CC

(Project 5910-2013-012)

Review activities:

Navy - AS, MC, OS, SH
Air Force - 19, 99
Other - MDA

NOTE: The activities listed above were interested in this document as of the date of this document. Since organizations and responsibilities can change, you should verify the currency of the information above using the ASSIST Online database at <https://assist.dla.mil> .