

CBDC

Hermetic Sealed, Equative CA35 series



1, Brief Introduction

CBDC Series silver-cased, hermetic sealed, with insulation sleeve wet tantalum electrolytic capacitors. With polar axial leads are characterized in stable and excellent performances, and high reliability.

CBDC Series meets the requirements of Chinese Electronic industry standard SJ/T10030-91, widely used in electronic equipment for military and civil applications such as telecommunication, aerospace and aviation.

2, General Characteristics

Operating Temperature Range: $-55^{\circ}\text{C} \sim +125^{\circ}\text{C}$ ($>85^{\circ}\text{C}$ with rated voltage derating);

Capacitance range: $1\mu\text{F} \sim 1500\mu\text{F}$

Capacitance Tolerance: $K=\pm 10\%$, $M=\pm 20\%$

Voltage: $6.3\text{V} \sim 125\text{V}$

DC Leakage: at $+20^{\circ}\text{C}$, $I_0 \leq 0.0008\text{CR UR}$ or $1\mu\text{A}$ (Whichever is greater);

at $+85^{\circ}\text{C}$ and $+125^{\circ}\text{C}$, $I_0 \leq 0.0060\text{ CR UR}$ or $6\mu\text{A}$ (Whichever is greater)

Dissipation Factor at 20°C : please see Table 2

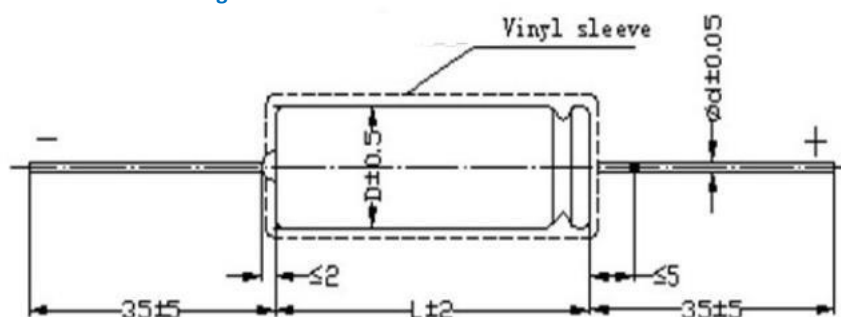
Impedance at -55°C : please see Table 2

Case sizes, Dimensions and Max. weight: As shown in Table 1 and figure 1.

Nominal Capacitance, Rated voltage, Voltage Derating: See table 2



3, Drawing, Case Dimension and Max. weight



Outline and Dimensions

Table 1

Code	Max. weight (g)	Uninsulated		With insulated sleeve	
		D ± 0.5 (mm)	L ± 2 (mm)	D ± 0.5 (mm)	L ± 2 (mm)
1	4	5	14	5.8	16
2	5	6	16	6.8	18
3	7	8	16	8.8	18
4	10	8	22	8.8	24
5	14	10	22	10.8	24
6	17	10	25	10.8	27

Note: When encapsulated with plastic insulation sleeve, dimension D increase 0.8mm and L increase 2mm.

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4, General Characteristics table 2

Rated Voltage	Voltage Derating	Case size	Capacitance (μF)	DF(%)Max 25℃,85℃,125℃	Impedance (Ω) -55℃ 100Hz
6.3 1J	4	1	22	6	130
		1	33	8	100
		1	47	12	80
		1	68	15	60
		2	100	15	55
		2	150	20	50
		3	220	25	45
		3	330	30	40
		4	470	40	35
		5	680	45	30
		6	1000	50	25
		6	1200	55	25
		6	1500	70	20
10 1A	6.3	1	15	6	180
		1	22	6	130
		1	33	10	110
		1	47	12	90
		2	68	12	75
		2	100	12	50
		3	150	18	45
		3	220	25	40
		4	330	30	35
		5	470	35	30
		6	680	40	25
		6	1000	50	20
16 1C	10	1	10	5.7	200
		1	15	5.7	155
		1	22	6	130
		1	33	8	90
		2	47	10	80
		2	68	16	75
		3	100	18	60
		3	150	18	50
		4	220	18	45
		5	330	30	40
		6	470	35	35
		6	680	45	30

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Rated Voltage	Voltage Derating	Case size	Capacitance (μF)	DF(%)Max 25℃,85℃,125℃	Impedance (Ω) -55℃ 100Hz
25 1E	16	1	6.8	4.6	300
		1	10	4.6	220
		1	15	6.5	175
		1	22	8.3	130
		2	33	9	100
		2	47	9	70
		3	68	9	60
		3	100	12	50
		4	150	14	45
		5	220	15	45
		6	330	20	35
		6	470	30	30
40 1G	25	1	4.7	4.5	450
		1	6.8	4.5	350
		1	10	4.5	260
		1	15	7	175
		2	22	7	130
		2	33	8	90
		3	47	8	65
		3	68	10	55
		4	100	12	40
		5	150	15	35
		6	220	20	30
		6	330	25	25
		10x30mm	1000	85	20
63 1J	40	1	2.2	4	1100
		1	3.3	4.5	700
		1	4.7	5	500
		1	6.8	5	350
		2	10	8	260
		2	15	8	150
		3	22	8	120
		3	33	10	85
		4	47	10	70
		5	68	10	55
		6	100	12	50
		6	150	15	40
		6	330	30	22

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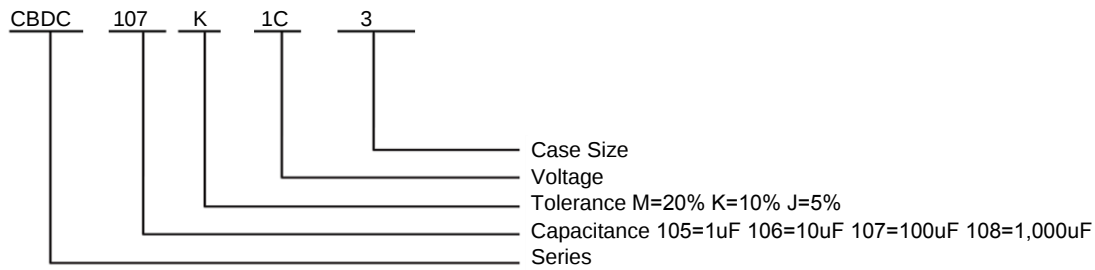
Rated Voltage	Voltage Derating	Case size	Capacitance (μF)	DF(%)Max 25℃,85℃,125℃	Impedance (Ω) -55℃ 100Hz
100 2A	63	1	1.5	5	1400
		1	2.2	5	1100
		1	3.3	6	700
		1	4.7	6	500
		2	6.8	8	350
		2	10	10	260
		3	15	10	160
		3	22	10	110
		4	33	12	110
		5	47	12	65
		6	68	12	50
		6	100	12	40
125 1Q	75	1	1.0	6	1800
		1	1.5	6	1400
		1	2.2	6	1100
		1	3.3	6	700
		2	4.7	6	500
		2	6.8	8	350
		3	10	9	260
		3	15	9	160
		4	22	9	130
		5	33	10	100
		6	47	10	70
		6	68	10	50

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PART NUMBER EXAMPLE



Notes:

- 1、Tantalum capacitors can't been measured by multimeter (Easily cause irreversible damage and lead to reject)
- 2、Capacitance, DF measure frequency: 100Hz, $U=2.2^{+0}_{-1.0}V$, $U=1.0^{+0}_{-0.5}V$ (effective value)
- 3、Measure leakage current above 85℃,please use derated voltage.
- 4、Special size and big capacitance products, please negotiate with us