

Datasheet

CA30 (Axial Leads)



❖ **Brief Introduction**

CA30 Series is Glass-sealed tubular wet tantalum electrolytic capacitors

With polar axial leads are characterized in small size, low DC Leakage, stable and excellent performances, high reliability and long life. CA30

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.

❖ **General Characteristics**

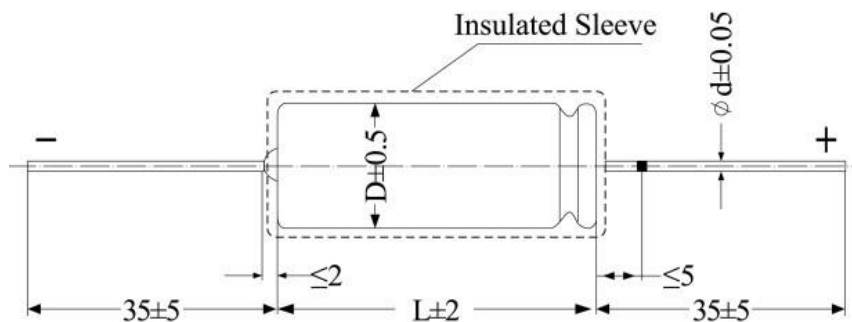
Operating Temperature Range: $-55^{\circ}\text{C} \sim +125^{\circ}\text{C}$ ($>85^{\circ}\text{C}$, use derated voltage)

Capacitance Tolerance: $M = \pm 20\%$, $K = \pm 10\%$, $J = \pm 5\%$

DC Leakage: at $+20^{\circ}\text{C}$, $I_0 \leq 0.001 C_R U_R$ or $1\mu\text{A}$ (Which is greater);

At $+85^{\circ}\text{C}$ and $+125^{\circ}\text{C}$, $I_0 \leq 0.008 C_R U_R$ or $8\mu\text{A}$ (Which is greater)

❖ **Drawing, case dimension and max. weight:**



Outline and Dimensions

Code	Max. weight (g)	Uninsulated		With insulated sleeve	
		D (mm)	L (mm)	D (mm)	L (mm)
0	3	5	10	5.5	11.5
1	4	5	14	5.5	15.5
2	5	6	16	6.5	17.5
3	7	8	16	8.5	17.5
4	10	8	22	8.5	23.5
5	14	10	22	10.5	23.5
6	17	10	25	10.5	26.5
7	20	10	30	10.5	31.5
8	23	10	33	10.5	34.5



❖ Nominal Capacitance, Rated voltage, Voltage Derating, Case size and General Characteristics

Rated Voltage	Voltage Derating	Case size	Capacitance (μF)	DF(%) Max. 25°C, 85°C, 125°C	Impedance (Ω) -55°C 100HZ
6.3	4	0	1.0	6	1800
		0	1.5	6	1400
		0	2.2	6	1100
		0	3.3	6	700
		0	4.7	6	500
		0	6.8	8	350
		0	10	8	260
		0	15	10	200
		0	22	10	180
		0	33	12	125
		0	47	15	125
		0	68	18	125
		0	100	20	100
		1	150	30	80
		1	220	40	70
		2	330	40	60
		2	470	50	50
		3	680	50	35
		3	1000	60	25
		4	1200	60	25
4	1500	60	20		
5	2200	70	20		
6	3300	80	15		
10	6.3	0	1.0	6	1800
		0	1.5	6	1400
		0	2.2	6	1100
		0	3.3	6	700
		0	4.7	6	500
		0	6.8	8	350
		0	10	8	250
		0	15	10	200
		0	22	10	175
		0	33	12	125
		0	47	15	100
		0	68	18	80
		0	100	20	60
		1	150	30	55
		2	220	40	45
		2	330	45	40



Rated Voltage	Voltage Derating	Case size	Capacitance (μF)	DF(%) Max. 25°C, 85°C, 125°C	Impedance (Ω) -55°C 100HZ
10	6.3	3	470	50	35
		3	680	50	30
		4	1000	50	25
		4	1200	60	25
		5	1500	60	20
		6	2200	70	20
16(15)	10	0	1.0	6	1800
		0	1.5	6	1400
		0	2.2	6	1100
		0	3.3	6	700
		0	4.7	6	500
		0	6.8	8	350
		0	10	8	260
		0	15	10	180
		0	22	10	150
		0	33	12	110
		0	47	12	90
		0	68	18	80
		1	100	20	70
		2	150	30	60
		2	220	40	55
		3	330	40	45
		4	470	40	40
		5	680	45	35
		6	1000	50	30
		6	1200	50	25
7	1500	60	20		
25	16	0	1.0	6	1800
		0	1.5	6	1400
		0	2.2	6	1100
		0	3.3	6	700
		0	4.7	6	500
		0	6.8	8	300
		0	10	8	260
		0	15	10	175
		0	22	10	150
		0	33	12	110
		0	47	12	80
		1	68	20	75
		2	100	20	70



Rated Voltage	Voltage Derating	Case size	Capacitance (μF)	DF(%) Max. 25°C, 85°C, 125°C	Impedance (Ω) -55°C 100HZ
25	16	3	150	25	60
		3	220	30	55
		4	330	30	45
		5	470	40	40
		6	680	40	35
		7	1000	40	30
		7	1200	50	25
		8	1500	60	20
40	25	0	1.0	6	1800
		0	1.5	6	1400
		0	2.2	6	1100
		0	3.3	6	700
		0	4.7	6	450
		0	6.8	8	350
		0	10	8	260
		0	15	10	175
		0	22	12	140
		1	33	12	110
		2	47	15	80
		2	68	15	75
		2	100	20	65
		3	150	20	50
		4	220	25	45
		5	330	25	35
		5	350	25	35
		5	470	30	35
		6	680	40	30
		7	1000	45	30
8	1200	50	25		
50	30	0	1.0	6	1800
		0	1.5	6	1400
		0	2.2	6	1100
		0	3.3	6	700
		0	4.7	6	500
		0	6.8	8	350
		0	10	8	260
		0	15	10	175
		1	22	12	150
		2	33	12	110
		2	47	15	80



Rated Voltage	Voltage Derating	Case size	Capacitance (μF)	DF(%) Max. 25°C, 85°C, 125°C	Impedance (Ω) -55°C 100HZ
50	30	3	68	15	75
		3	100	20	65
		4	150	20	50
		4	220	25	45
		5	330	25	45
		6	470	35	35
		7	680	40	30
		8	1000	50	30
63	40	0	1.0	6	1800
		0	1.5	6	1400
		0	2.2	6	1100
		0	3.3	6	700
		0	4.7	6	500
		0	6.8	8	350
		0	10	8	260
		1	15	10	175
		2	22	12	140
		2	33	12	100
		2	47	15	80
		3	68	15	65
		3	100	20	60
		4	150	20	50
		5	220	25	45
		6	330	25	35
		7	470	40	30
		75(70)	50	0	1.0
0	1.5			6	1400
0	2.2			6	1100
0	3.3			6	700
0	4.7			6	500
1	6.8			8	350
1	10			8	260
2	15			10	175
2	22			12	150
3	33			12	110
3	47			15	80
4	68			15	70
4	100			20	60



Rated Voltage	Voltage Derating	Case size	Capacitance (μF)	DF(%) Max. 25°C, 85°C, 125°C	Impedance (Ω) -55°C 100HZ
75 (70)	50	5	150	20	50
		6	220	25	45
		7	330	25	35
100(90)	63	0	1.0	6	1800
		0	1.5	6	1400
		0	2.2	6	1100
		0	3.3	6	700
		0	4.7	6	500
		1	6.8	8	350
		1	10	8	260
		2	15	10	175
		2	22	10	150
		3	33	15	100
		3	47	15	70
		4	68	15	65
		5	100	20	60
		6	150	20	50
		7	220	20	40
		125	75	0	0.47
0	0.68			6	3000
0	1.0			6	1800
0	1.5			6	1400
0	2.2			6	1100
0	3.3			6	700
1	4.7			6	500
1	6.8			8	350
2	10			10	260
2	15			10	175
3	22			15	150
3	33			15	120
4	47			15	90
5	68			15	70
6	100			15	50
7	150			20	45



❖ How to order

(Part No. **GTCA30-105M0160**)

GT	CA30	105	J	016	0
Brand Name	Type	Capacitance	Tolerance	DC voltage	Case Code
Green Tech	Series Wet Electrolytic Tantalum Capacitor	105: 10X 10 ⁵ (pF) This is expressed in picofarads. The first two digits are the significant figures. The third is the number of zeros to follow.	J=±5% K=±10% M=±20%	6.3V=006 10V=010 16V=016 25V=025 40V=040 50V=050 63V=063 75V=075 100V=100 125V=125	See table 1

Notes:

- 1、Tantalum capacitors can't be measured by multimeter (Easily cause irreversible damage and lead to reject)
- 2、Capacitance, DF measure frequency: 100Hz, $U_1=2.2_{-0}^0V$, $U_2=1.0_{-0.5}^0V$ (effective value)
Test method: series equivalent circuit.
- 3、Measure leakage current above 125°C, please use derated voltage.
- 4、Special size and big capacitance products, please negotiate with GTCAP.