

CBGF High-Temp Wet Tantalum Capacitor



1, Brief Introduction and Feature

- 1) CBGF(Equative CA382), All tantalum case ,hermetic sealed, with high-temp insulated sleeve wet tantalum electrolytic capacitors.
- 2) With polar, axial leads through hole.High reliability,long life,
- 3) This unit have a 3V reverse voltage capability. Big ripple current.
- 4) Can use in high temperature area 200°C available.
- 5) Widely used in electronic equipment for high-temp applications such as oil down hole drilling, aerospace,satellite,military equipment and other DC or PC.

Meet standard: Q/RTO.464.199-2014



2, General Characteristics

- 1) Operating Temperature: -55°C ~ +200°C (>85°C use voltage derating);
- 2) Storage temperature: -62°C ~ +130°C
- 3) Capacitance Tolerance: K=±10%, M=±20%, -10%~+30%, -20%~+50%
- 4) Leakage current: see the table 2 list
- 5) Ripple current: see the table 2 list
- 6) Dimensions and Max. weight: See table 1

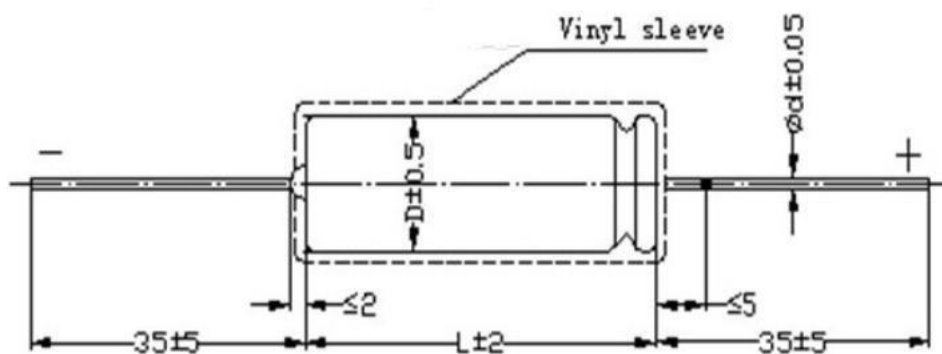


Table 1 Dimension

Case Code	Dimension (mm)		L±1.5 (mm)	Max. Weight (g)
	Without Sleeve D±0.4	With Sleeve D1 Max		
T1	4.78	5.56	11.5	3
T2	7.14	7.92	16.3	7
T3	9.52	10.31	19.5	12
T4	9.52	10.31	27.0	18
*T5	9.52	10.31	27.8	20
*T6	9.9	10.7	27.2	22
*T7	9.9	10.7	30	24

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Tantalum Case, for -55°C~+200°C operation (hermetic seal)



3, Table 2 General characteristics

Rated Vol. (V)	A Derated Vol. 125°C (V)	B Derated Vol. 200°C (V)	Nominal Cap. (μF)	Dissipation Factor +25°C +85°C +200°C (%)	Leakage current (μA)		Impedance 100Hz -55°C (Ω)	Cap change rate (%)			85°C 40KHZ AC Ripple current (mA)	Case Code
					+25°C	+85°C +125°C		-55°C	+85°C	+200°C		
6 0I	4	3.6	30	7	1	2	100	-40	+11	+15	820	T1
			68	12			60			+18	960	
			140	17			40			+20	1200	
			270	30			25			+25	1375	
			330	30	2	8	20	-44	+18	+20	1800	T2
			560	45			25			+25	1900	
			1200	90			20			+30	2265	
8 0K	5	4.8	25	7	1	2	100	-40	+11	+15	820	T1
			56	10			59			+18	900	
			120	15			50			+20	1220	
			220	30			30			+25	1370	
			290	30	2	6	25	-64	+18	+20	1770	T2
			430	36			25			+25	1825	
			850	50			22			+30	2330	
10 1A	7	6	20	5	1	2	175	-32	+11	+15	820	T1
			47	11			100			+18	855	
			100	12			60			+20	1200	
			180	20			40			+25	1365	
			250	25	2	10	30	-40	+14	+20	1720	T2
			390	25			25			+25	1800	
			750	40			23			+30	2360	
15 1R	10	9	15	5	1	2	155	-24	+11	+15	780	T1
			33	8			90			+18	820	
			70	10			75			+20	1150	
			120	15			50			+25	1450	
			170	20	2	10	35	-32	+14	+20	1480	T2
			270	25			30			+25	1740	
			540	35			23			+30	2330	
25 1E	15	12	10	4	1	2	220	-16	+8	+10	715	T1
			22	5.5			140			+11	825	
			50	8			70			+13	1130	
			100	12			50			+15	1435	
			120	18	2	6	38	-32	+13	+15	1450	T2
			180	20			32			+15	1525	
			350	30			24			+30	1970	

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					+25°C	+85°C +125°C		-55°C	+85°C	+200°C		
30 1U	20	18	8	4	1	2	275	-16	+8	+12	640	T1
			15	5			175	-20	+11	+15	780	
			40	8			65	-24			1120	T2
			68	11			60				1285	
			100	15	2	10	40	-28	+11	+18	1450	T3
			150	20		15	35	-48	+13	+25	1525	
			300	25	8	32	25	-60	+25	+35	1950	T4
50 1H	30	30	5	3	1	2	400	-16	+5	+9	580	T1
			10	4		2	250	-24	+8	+12	715	
			25	7		5	95	-20	+11	+15	1005	T2
			47	10		8	70	-28	+13	+18	1155	
			60	10	2	10	45	-16	+11	+15	1335	T3
			82	12		12	45	-32	+13	+18	1400	
			160	15	8	30	27	-50	+25	+30	1900	T4
60 1I	40	36	4	2.8	1	2	550	-16	+5	+9	525	T1
			8.2	4		2	275	-24	+8	+12	625	
			20	6		5	105	-16	+11	+15	930	T2
			39	8		8	90	-28			1110	
			50	9	2	10	50	-16			1330	T3
			68	10		10	45	-32			1365	
			140	12	8	30	28	-40	+20	+25	1850	T4
			*560	50	30	160	25	-60	+40	+50	2800	T5
75 1M	50	45	3.5	2.5	1	2	650	-16	+5	+9	525	T1
			6.8	3.5		2	300	-20	+8	+12	610	
			15	5		5	150	-16			890	T2
			33	8		9	90	-24	+11	+18	1000	
			40	8	2	10	60	-16		+15	1250	T3
			56	10		12		-28		+18	1335	
100 2A	65	60	110	10	9	30	29	-35	+20	+25	1850	T4
			2.5	2	1	2	950	-16	+7	+10	505	T1
			4.7	3		2	500	-20			565	
			11	5		4	200	-16	+8		835	T2
			22	6		9	100	-24			965	

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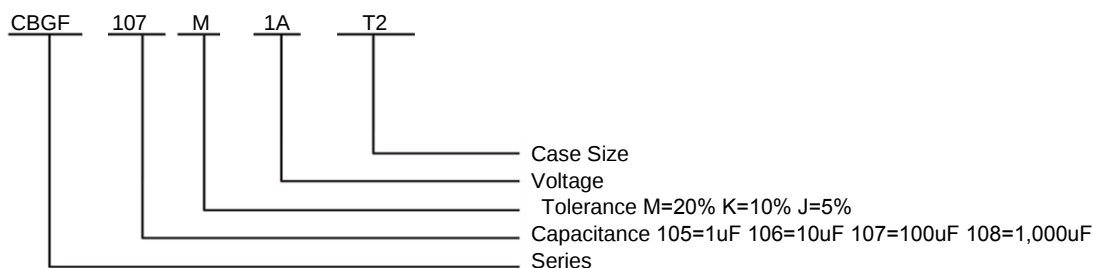
Tantalum Case, for -55°C~+200°C operation (hermetic seal)



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Rated Vol. (V)	A Derated Vol. 125°C (V)	B Derated Vol. 200°C (V)	Nominal Cap. (μF)	Dissipation Factor +25°C +85°C +200°C (%)	Leakage current (μA)		Impedance 100Hz -55°C (Ω)	Cap change rate (%)			85°C 40KHZ AC Ripple current (mA)	Case Code
					+25°C	+85°C +125°C		-55°C	+85°C	+200°C		
100 2A	65	60	30	6	2	10	80	-16			1240	T3
			43	7		14	70	-20			1335	
			86	8	9	30	30	-25	+15	+18	1800	T4
			*400	45	40	120	20	-70	+20	+30	3000	T6
			*440	50	50	140	20	-70	+20	+80	3000	T7
125 2Q	85	75	1.7	2	1	2	1250	-16	+7	+10	415	T1
			3.6	2.7		2	600				520	
			9	5		5	240				755	T2
			14	5		7	167				860	
			18	6	2	9	129				1130	T3
			25	6		10	93				1200	
			56	6.5		40	32				1800	
					10	40	32	-25	+15	+18	1800	T4

PART NUMBER EXAMPLE



Notes:

- Tantalum capacitors can't been measured by multimeter (Easily cause irreversible damage and lead to reject)
A Derated Vol. 125°C (V) means temperature range 85°C~125°C (not include 85°C but include 125°C)
B Derated Vol. 200°C (V) means temperature range 125°C~200°C (not include 125°C but include 200°C)
- Capacitance, DF measure frequency: 100Hz, $U_{\text{eff}}=2.2_{-1.0}^0 \text{ V}$, $U_{\text{eff}}=1.0_{-0.5}^0 \text{ V}$ (effective value), measure method is by series equivalent circuit.
- Measure leakage current above 125°C, please use derated voltage. DLC read within 5 minute.
- Special size and big capacitance products, please negotiate with us