

CBGE- 200°C Wet Tantalum Capacitor

hermetic seal, equative CA53D



Characteristics and Application

- ◆ Silver case, **Hermetic Seal**, tubular, Axial leads, **High temperature sleeve**, Polarized.
- ◆ Good performance of electrical, High reliability, long life, Low DF and LC.
- ◆ Small Size, **good high temperature performance**, Can use at 200 °C.
- ◆ Suit for down-hole-drilling instrumentation and high temperature electronic devices DC or pulse circuit.
- ◆ Implementation of standards: QJ/PWV308-2009, Can cross Vishay's 135D



Technical Performance:

Operation temperature: -55°C~+200°C (>85°C use derated voltage)

Capacitance Tolerance: K=±10%; M=±20%; Q=-10%~+30%

Dissipation Factor: 25°C, 100Hz (see table 2)

Leakage current:

25°C $I \leq 0.001 \text{ CRUR} (\mu\text{A})$ or 1 μA (whichever is greater)

85°C $I \leq 0.008 \text{ CRUR} (\mu\text{A})$ or 8 μA (whichever is greater)

200°C $I \leq 0.04 \text{ CRUR} (\mu\text{A})$ or 40 μA (whichever is greater)

Diagram of Dimension (mm)

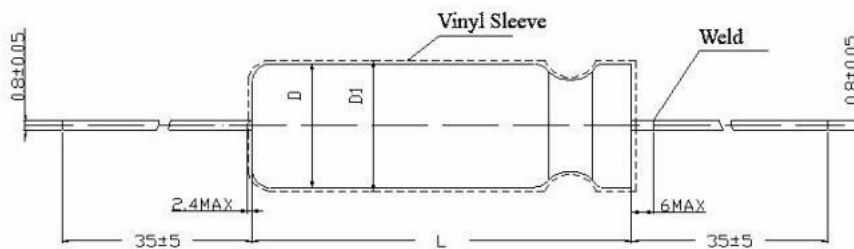


Table1 Case size and Maximum weight

Case code	Max weight (g)	Without Sleeve		With Sleeve	
		D±0.5	L±2	D ₁ max	L max
		(mm)	(mm)	(mm)	(mm)
0	3	5	12	5.8	14
1	4	5	14	5.8	16
2	4	6	15	6.8	17
3	5	8	17	8.8	19
4	7	8	22	8.8	24
5	10	10	22	10.8	24
6	14	10	25	10.8	27
7	17	10	30	10.8	32

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Table2 Rated Voltage,derated voltage, capacitance, case code and dissipation factor

Rated Voltage U _R (V) 25°C,85°C	Derated Voltage U _C (V)		Case code	Cap. C _R (μF)	tgδ(%) DF 25°C	Rated Voltage U _R (V) 25°C,85°C	Derated Voltage U _C (V)		Case code	Cap. C _R (μF)	tgδ(%) DF 25°C
	125°C	200°C					125°C	200°C			
	6 0I (6.3 0J)	4 (4.5)					3.6 (4.0)	0			
0			68	20	0	33		12			
2			140	35	2	70		20			
2			220	40	2	82		25			
3			270	50	2	100		30			
3			330	50	2	120		35			
3			470	70	3	170		60			
3			560	90	3	270		60			
4			820	100	3	390		65			
5			1200	120	4	540		70			
6			1500	120	5	680		75			
7			2200	160	6	820		85			
8 0K	5	4.8	0	25	9	25	15	12	7	1000	100
			0	56	20				0	10	4.6
			2	120	35				0	22	8.3
			2	180	40				2	50	15
			2	220	45				2	56	15
			3	290	50				2	68	20
			3	430	85				2	100	25
			3	680	90				3	120	50
			4	850	100				3	160	50
			6	1500	120				3	180	50
			7	1800	120				3	270	50
			10 1A	7	6				0	20	7
0	47	15				5	470	55			
2	100	25				6	560	60			
2	120	30				6	680	70			
2	150	35				0	8	4.5			
2	180	45				0	15	9			
3	250	70				2	40	15			
3	390	75				2	47	15			
4	560	85				2	56	15			
4	750	90				2	68	20			
5	1200	120				3	100	35			
6	1500	120				3	150	35			
30 1U	20	18	5	470	55				3	220	40
			6	560	65				4	300	45
									4	390	50

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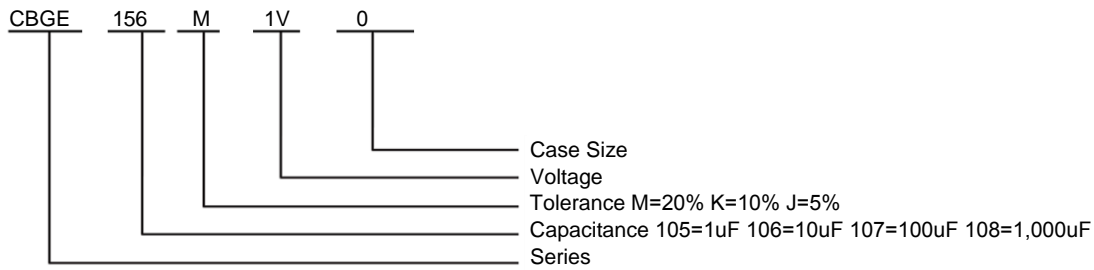
Rated Voltage $U_R(V)$ 25°C,85°C	Derated Voltage $U_C(V)$		Case code	Cap. $C_R(\mu F)$	tg δ (%) DF 25°C	Rated Voltage $U_R(V)$ 25°C,85°C	Derated Voltage $U_C(V)$		Case code	Cap. $C_R(\mu F)$	tg δ (%) DF 25°C
	125°C	200°C					125°C	200°C			
	35 1V	22					21	0			
			2	39	16	0	6.8	8			
			2	68	20	2	15	15			
			3	100	25	2	22	15			
			3	120	30	3	33	20			
			4	270	45	3	40	25			
			5	330	45	3	47	25			
			5	370	50	3	56	25			
			5	470	55	3	68	25			
			7	680	65	3	82	25			
50	30	30	0	5	5	100 2A	65	60	5	110	25
			0	10	8				0	2.5	5
			2	25	12				1	4.7	6
			2	33	20				2	10	10
			2	47	25				3	22	12
			3	60	25				3	25	20
			3	82	25				3	30	20
			3	100	25				3	39	25
			4	160	28				4	43	25
			5	270	40				4	56	25
60 1I (63 1J)	40 (42)	36 (38)	0	4	5	125 2Q	85	75	5	86	25
			0	8.2	8				6	120	25
			2	20	12				0	1.7	6
			2	27	15				1	3.6	6
			2	39	25				2	6.8	10
			3	50	25				2	9	13
			3	68	25				3	14	13
			3	82	25				3	18	20
			3	100	25				4	22	25
			3	130	28				4	27	25
			4	140	28				4	33	25
			5	270	40						

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PART NUMBER EXAMPLE



Notes:

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