

1 85℃ HIGH TEMPERATURE TANTALUM CAPACITOR

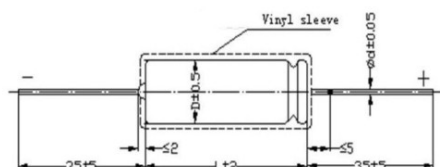
CBGY

CHARACTERS AND USES

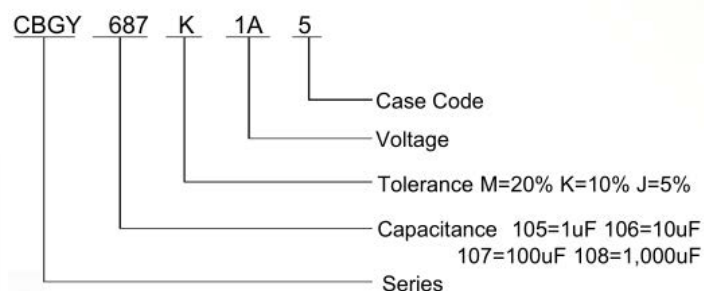
- Silver case, gas seal, Cylindrical, Axial leads, High temperature sleeve, Polar
- Good electric performance, High reliability, long life, Low DF and LC.
- High temperature performance, Can use at 185 °C
- Suit for oil drilling deep well measurements and high temperature electronic devices
DC or pulse circuit
- Implementation of standards: QJ/PWV222-2008
- Equative CA502 series

Technical Performance

- Operation temperature: $-55^{\circ}\text{C} \sim +185^{\circ}\text{C}$ ($> 155^{\circ}\text{C}$ use derated voltage)
- Capacitance Tolerance: $\pm 10\%$; $\pm 20\%$; $-10\% \sim +30\%$
- Dissipation Factor: 25°C , 100Hz (see table 2)
- Leakage Current: 25°C $I_o \leq 0.002 C_R U_R$ (μA) or $2 \mu\text{A}$ (whichever is greater)
 185°C $I_o \leq 0.04 C_R U_R$ (μA) or $40 \mu\text{A}$ (whichever is greater)



PART NUMBER EXAMPLE:



CASE SIZE AND MAXIMUM WEIGHT

TABLE1

Case code	Max Weight (g)	With Sleeve		Without Sleeve	
		D ± 0.5 (mm)	L ± 2 (mm)	D max (mm)	L max (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
7	20	10	30	10.8	32

RATED VOLTAGE, DERATED VOLTAGE, CAPACITANCE, CASE CODE AND DISSIPATION FACTOR

TABLE2

Rated Voltage U_R (V)	Derated Voltage U_C (V)	Case Code	Cap C_R (μF)	tg δ (%) 25°C	Rated Voltage U_R (V)	Derated Voltage U_C (V)	Case Code	Cap C_R (μF)	tg δ (%) 25°C
6.3 0J	3	1	22	45	40 1G	15	1	4.8	15
		1	33	45			1	6.8	20
		1	47	45			1	10	20
		1	68	45			1	15	25
		2	100	50			1	22	30
		2	150	50			2	33	30
		3	220	70			2	47	35
		3	330	75			2	68	30
		4	470	95			3	100	45
		4	680	95			4	150	45
10 1A	5	5	1000	100	50 1H	20	5	220	45
		1	15	40			1	3.3	10
		1	22	40			1	4.7	15
		1	33	40			1	6.8	15
		1	47	45			1	10	15
		1	68	45			2	15	15
		2	100	50			2	22	20
		2	150	60			2	33	25
		3	220	65			3	47	25
		3	330	80			4	68	35
		4	470	85			4	100	35
		4	680	85			5	150	30

TABLE2

Rated Voltage U_R (V)	Derated Voltage U_C (V)	Case Code	Cap C_R (μF)	tg δ (%) 25°C	Rated Voltage U_R (V)	Derated Voltage U_C (V)	Case Code	Cap C_R (μF)	tg δ (%) 25°C
16 1C	7	1	10	30	63 1J	25	1	3.3	10
		1	15	30			1	4.7	15
		1	22	35			1	6.8	15
		1	33	35			1	10	15
		1	47	40			2	15	15
		2	68	40			2	22	20
		2	100	45			3	33	25
		3	150	45			3	47	25
		3	220	70			4	68	35
		4	330	80			5	100	35
25 1E	10	4	470	85	75 1M	30	6	150	30
		1	6.8	20			1	3.3	10
		1	10	20			1	4.7	10
		1	15	20			1	6.8	15
		1	22	25			2	10	20
		1	33	25			2	15	25
		2	47	30			3	22	35
		2	68	30			3	33	35
		2	100	40			4	47	33
		3	150	45			5	68	30
100 2A	40	4	220	60	125 2Q	55	6	100	30
		4	330	60					
		1	3.3	10			2	3.3	10
		2	4.7	10			3	4.7	10
		2	6.8	15			3	6.8	15
		3	10	20			3	10	25
		3	15	25			4	15	25
		4	22	35			5	22	30
		5	33	35			6	33	35
		6	47	33			7	47	30
		7	68	30					