

185°C HIGH TEMPERATURE TANTALUM CAPACITOR

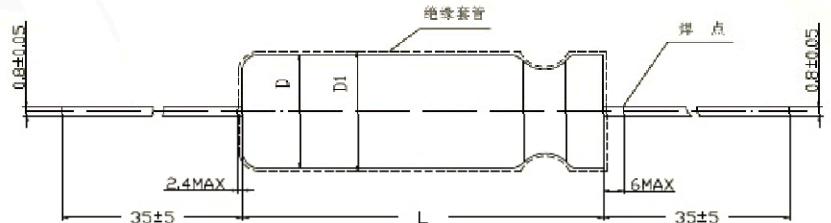
CA502

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
- How to order: CA502-25V100 μ F-M: 100pcs

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)



CASE SIZE AND MAXIMUM WEIGHT

TABLE1

Case code	Max Weight (g)	With Sleeve		Without Sleeve	
		D ± 0.5 (mm)	L ± 2 (mm)	D ₁ 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	3	1	22	45	40	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	5	1	15	40	50	20	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	7	1	10	30	63	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	10	1	6.8	20	75	30	6	150	30
		1	10	20			1	3.3	10
		1	15	20			1	4.7	10
		1	22	25			1	6.8	15
		1	33	25			2	10	20
		2	47	30			2	15	25
		2	68	30			3	22	35
		2	100	40			3	33	35
		3	150	45			4	47	33
		4	220	60			5	68	30
100	40	1	3.3	10	125	55	6	100	30
		2	4.7	10			2	3.3	10
		2	6.8	15			3	4.7	10
		3	10	20			3	6.8	15
		3	15	25			3	10	25
		4	22	35			4	15	25
		5	33	35			5	22	30
		6	47	33			6	33	35
		7	68	30			7	47	30