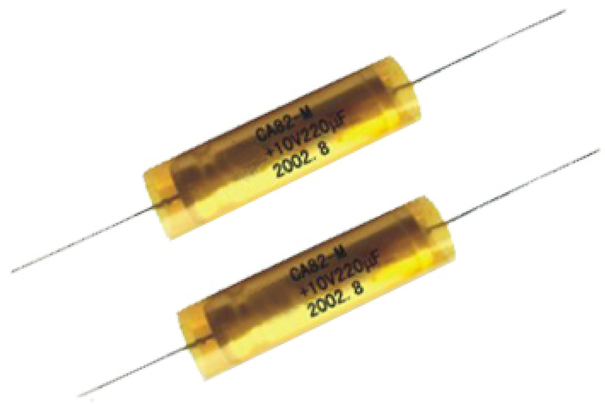
CA82 SeriesHermitically-sealed, Non-solid Electrolytic Tantalum Capacitor

Brief Introduction

- Silver Fabric , Hermetically-Sealed , Tubular, Axial-lead , With insulation sleeve , Heteropolarity ;
- Stable in Electrical Characteristics, High reliability, Long life-span, Low DF&DCL ;
- Excellent working ability under High Temperature, Available in 175℃;
- Applying in Petroleum deep-well' s measurement &drilling such High-Temperature resistance Electrical Equipments with DC& Impulse Circuit for Military and Civil use;
- Operative Standard: QJ/PWV80-2002



Features

- Operating Temperature Range: -55℃~+175℃(when >155℃ , with rated voltage derating)
- Capacitance Tolerance: K: ±10% ; M:±20% , Q : -10%~+30%;
- DF at 25℃ , 100Hz : See Table2 ;
- DCL : at 25℃ $I \le 0.001 C_R U_R$ (μA) or 1μA (Choose the greater one)
  at 85℃ $I \le 0.008\ C_R U_R$ (μA) or 8μA (Choose the greater one)
  At 200℃ $I \le 0.04\ C_R U_R$ (μA) or 40μA (Choose the greater one)

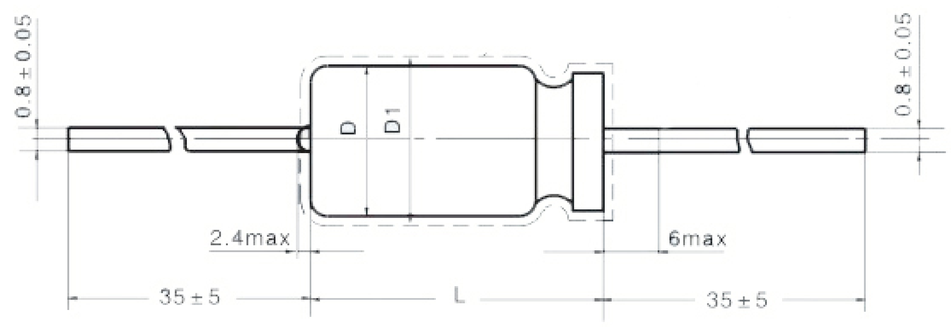


Table1 Dimensions and Max weight

Case Code	Max Weight	with no Insulation Sleeve		with Insulation Sleeve	
		D±0.5 (mm)	L±2 (mm)	D_1max (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

Table2 Electrical Characteristics

U_R(V) Rated Voltage	U_C(V) Derating Voltage	Case Code	Nominal Capacitance C_R (μF)	tgδ (%) 25℃
6 (6.3)	4	1	22	12
		1	33	15
		1	47	15
		1	68	30
		2	100	20
		2	150	50
		3	220	45
		3	330	70
		4	470	75
		4	680	65
		5	1000	80
		5	1200	90
10	6.3	1	10	10
		1	22	12
		1	33	15
		1	47	15
		2	68	30
		2	100	20
		3	120	40
		3	150	50
		3	220	45
		4	330	70
		5	470	75
		6	680	65
16 (15)	10	1	1	8
		1	4.7	8
		1	10	10
		1	15	10
		1	22	10
		1	33	12
		2	47	20
		2	68	20
		2	100	35
		2	120	35
		3	150	35
		4	220	60
		4	270	65
		5	330	70

U_R(V) Rated Voltage	U_C(V) Derating Voltage	Case Code	Nominal Capacitance C_R (μF)	tgδ (%) 25℃
16 (15)	10	6	470	50
25	15	1	10	10
		1	15	10
		1	22	10
		2	33	20
		2	47	15
		2	56	20
		3	68	25
		3	100	25
		4	150	50
		4	180	50
		4	220	50
		5	330	40
		5	470	60
30	19	1	22	12
		2	33	15
		2	47	18
		2	68	20
		3	100	30
		3	120	35
		4	150	40
		5	220	50
		5	270	55
		5	300	60
		5	330	60
		5	470	65
		6	560	70
35	22	1	1	6
		1	4.7	8
		1	6.8	10
		2	22	15
		2	39	20
		2	47	20
		3	68	25
		4	100	30
		5	150	35
		6	220	40
		6	330	50

U_R(V) Rated Voltage	U_C(V) Derating Voltage	Case Code	Nominal Capacitance C_R (μF)	tgδ (%) 25℃
40	25	1	10	8
		1	15	10
		2	22	20
		2	33	20
		3	47	20
		3	68	20
		4	100	35
		5	150	35
		6	220	30
		6	330	35
		7	470	45
50	32	1	4.7	6
		1	10	8
		2	15	10
		2	22	15
		2	33	15
		3	47	20
		4	68	25
		4	82	25
		4	100	25
		4	120	30
		5	160	30
		5	220	35
		7	330	40
63 (60)	40 (38)	1	4.7	6
		1	6.8	8
		2	10	8
		2	15	10
		2	22	18
		3	33	18
		3	39	20
		4	47	25
		5	68	25
		5	100	25
		5	150	28
		6	220	30
		7	270	35
		7	330	40

(add) Table2 Electrical Characteristics

额定电压 U_R(V) Rated Voltage	类别电压 U_C(V) Derating Voltage	外壳代号 Case Code	标称电容量 Nominal Capacitance C_R (μF)	tgδ (%) 25℃
63(60)	40(38)	7	470	45
75	48	1	6.8	8
		2	10	10
		2	15	12
		3	22	15
		3	33	20
		4	47	25
		5	68	25
		5	82	25
		6	120	30
		6	180	30
		7	220	35

额定电压 U_R(V) Rated Voltage	类别电压 U_C(V) Derating Voltage	外壳代号 Case Code	标称电容量 Nominal Capacitance C_R (μF)	tgδ (%) 25℃
100	63	1	3.3	6
		1	4.7	6
		2	6.8	8
		2	10	10
		3	15	15
		3	22	15
		4	33	20
		5	43	25
		5	47	25
		6	68	20
		6	82	25
		6	100	25
		6	120	25
		7	220	28

额定电压 U_R(V) Rated Voltage	类别电压 U_C(V) Derating Voltage	外壳代号 Case Code	标称电容量 Nominal Capacitance C_R (μF)	tgδ (%) 25℃
125	75	1	2.2	6
		1	3.3	6
		1	3.6	6
		2	4.7	6
		2	6.8	8
		3	10	15
		3	15	15
		4	22	20
		5	33	20
		6	47	20
		6	56	25
		7	82	25
		7	100	25
		7	120	25

P.S. : 1 Please do not use multimeter through the measuring procedures.

2 Capacitance and DF measured at :100Hz , U _ =2.2°-1.0V , U~=1.0°-0.5V, Frequency=100Hz.

Test only applied in series equivalent circuit.

3 Voltage derating is applied at +175℃. (The DCL parameter should be read after 5minutes when it connected to the circuit) .

4 Special size and demand could consult with us.