1、SCOPE

This specification applies to CA306 series axial wet tantalum electrolytic capacitor (180℃) produced by Shenzhen Be-Top Electronic Components Co., Ltd.

2、Brief Introduction

CA306 series wet electrolyte tantalum capacitors (180℃) are silver coating sealed with polar axial leads. The series capacitors are characterized by small size, low DC Leakage, stable performances, high reliability and long life. It has good performance in high-temp environment. It can be used in the conditions of 180℃. CA306 Series meets the standard QJ/PWV313-2009 and it is widely used in oil & gas exploration & drilling equipments.

3、General Specification

1) Operating Temperature: -40 ℃ ~+180 ℃ (using derating voltage when the temperature is higher than 85℃). (see table 1)
2) Capacitance Tolerance: ±10%（K）, ±20% (M)
3) Current Leakage:
   At 25℃: $I_0 \leqslant 0.0002 C_R U_R$ (μA) or 2μA (Whichever is greater)
   At 180℃: $I_0 \leqslant 0.04 C_R U_R$ (μA) or 40μA (Whichever is greater)
4) Dissipation Factor (see table 1).
5) Product Dimension and max weight (see table 2)

Table 1: Relation between Rated Voltage, Derating Voltage and Capacitance

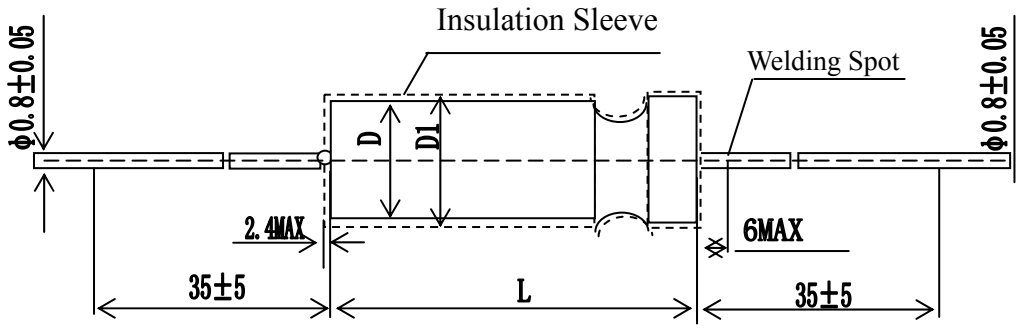
Rated Voltage U_R(V) +85℃	Derating Voltage U_C(V)		Case Code	Capacitance C_R(μF)	tg δ（%）	Rated Voltage U_R(V) +85℃	Derating Voltage U_C(V)		Case Code	Capacitance C_R(μF)	tg δ（%）
	+155 ℃	+180 ℃					+155 ℃	+180 ℃			
10	6.3	6.3	1	6.8	25	25	15	13	4	150	50
			1	10	25				5	220	50
			1	15	25				6	330	50
			1	22	25	40	25	20	1	1.0	20
			1	33	35				1	1.5	20
			1	47	35				1	2.2	20
			2	68	35				1	3.3	20
			2	100	50				1	4.7	20
			3	150	50				1	6.8	20
			3	220	50				1	10	20
			4	330	50				1	15	20
			5	470	60				2	22	20
			6	680	60				2	33	30

Rated Voltage U_R(V) +85℃	Derating Voltage U_C(V)		Case Code	Capacitance C_R(μ F)	tg δ （%）	Rated Voltage U_R(V) +85℃	Derating Voltage U_C(V)		Case Code	Capacitance C_R(μ F)	tg δ （%）
	+155 ℃	+180 ℃					+155 ℃	+180 ℃			
16	10	10	1	1.0	25	40	25	20	3	47	30
			1	1.5	25				4	68	30
			1	2.2	25				4	100	40
			1	3.3	25				5	150	40
			1	4.7	25				6	220	40
			1	6.8	25	63	40	32	1	1.0	20
			1	10	25				1	1.5	20
			1	15	25				1	2.2	20
			1	22	25				1	3.3	20
			1	33	35				1	4.7	20
			2	47	35				1	6.8	20
			2	68	35				2	10	20
			3	100	50				2	15	20
			3	150	50				3	22	20
			4	220	50				4	33	30
			5	330	50				4	47	30
			6	470	60				5	68	30
25	15	13	1	1.0	25				6	100	40
			1	1.5	25	100	63	50	1	1.0	20
			1	2.2	25				1	1.5	20
			1	3.3	25				1	2.2	20
			1	4.7	25				1	3.3	20
			1	6.8	25				1	4.7	20
			1	10	25				2	6.8	20
			1	15	25				2	10	20
			1	22	25				3	15	20
			2	33	35				3	22	20
			2	47	35				4	33	30
			3	68	35				4	47	30
			3	100	50				5	68	30

Table 2: Product Dimension and Max Weight

Case Code	Max Weight （g）	Without Insulation Sleeve		With Insulation Sleeve	
		D±0.5(mm)	L±2(mm)	D_1max(mm)	L max(mm)
1	5	5	14	5.8	15
2	7	6	16	6.8	17
3	10	8	16	8.8	17
4	11	8	22	8.8	23
5	15	10	22	10.8	23
6	17	10	25	10.8	26

Figure of Product



How to order

CA306-106M025

CA306	106	M	025
Type	Capacitance	Tolerance	Rated Voltage
CA306 Series axial wet tantalum capacitor (180℃)	106=10μF	K=±10% M=±20%	10V=010 16V=016 25V=025 40V=040 63V=063 100V=100